



FILE NO.

SERVICE MANUAL

Remote Control Digital Color Television

DP26649 (U.S.A.)
(CANADA)

ORIGINAL VERSION



Chassis No. P26649-03

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You **must** refer to "Notices" to the Original Service Manual prior to servicing the unit.

Servicing should be performed by only trained and qualified service personnel.

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Specifications

POWER RATING	120VAC 78W (AVG.)
ANTENNA INPUT IMPEDANCE	75Ω UHF/VHF/CATV DIGITAL
RECEIVING CHANNEL	2 - 13 (VHF), 14 - 69 (UHF), 01, 14-94, 95-135 (CATV) 1-135 (DIGITAL)
REMOTE READY	32 KEY REMOTE CONTROL
SOUND OUTPUT	5.0 W/CH
INTERMEDIATE FREQUENCY	
PICTURE IF CARRIER	45.75MHz
SOUND IF CARRIER	41.25MHz
COLOR SUB CARRIER	42.17MHz
CABINET DIMENSIONS	
WIDTH	663mm
HEIGHT	486mm
DEPTH INCLUDING BASE	228mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

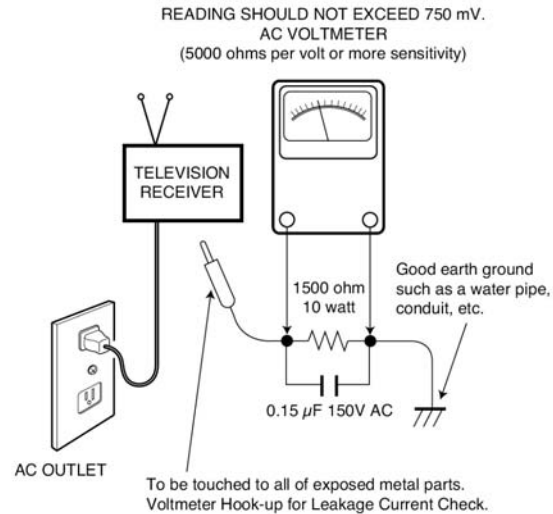
LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a  in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.



SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

CAUTION: Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.

CAUTION: Be sure that no power is applied to the chassis or circuit assembly.

7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpacked) ES devices.

SERVICE ADJUSTMENTS

GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

ON-SCREEN SERVICE MENU SYSTEM

1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume “-” button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. *See Figure 1 below.*

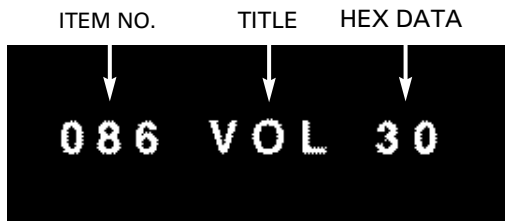
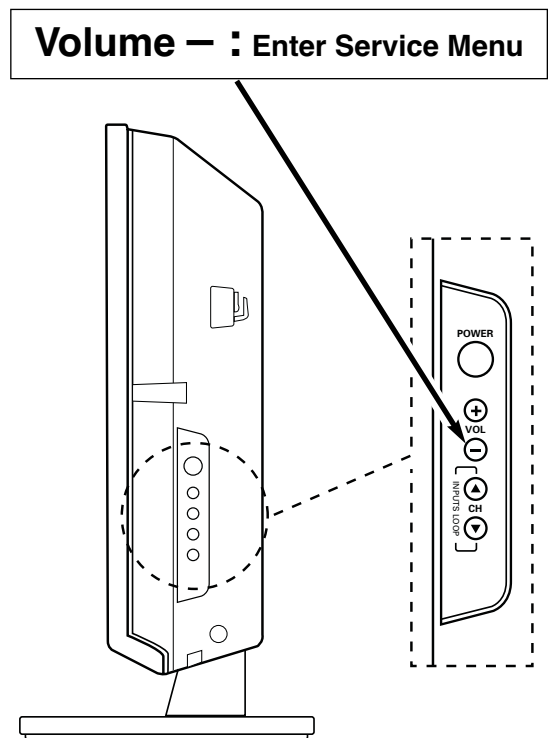


Figure 1. Service Menu Display

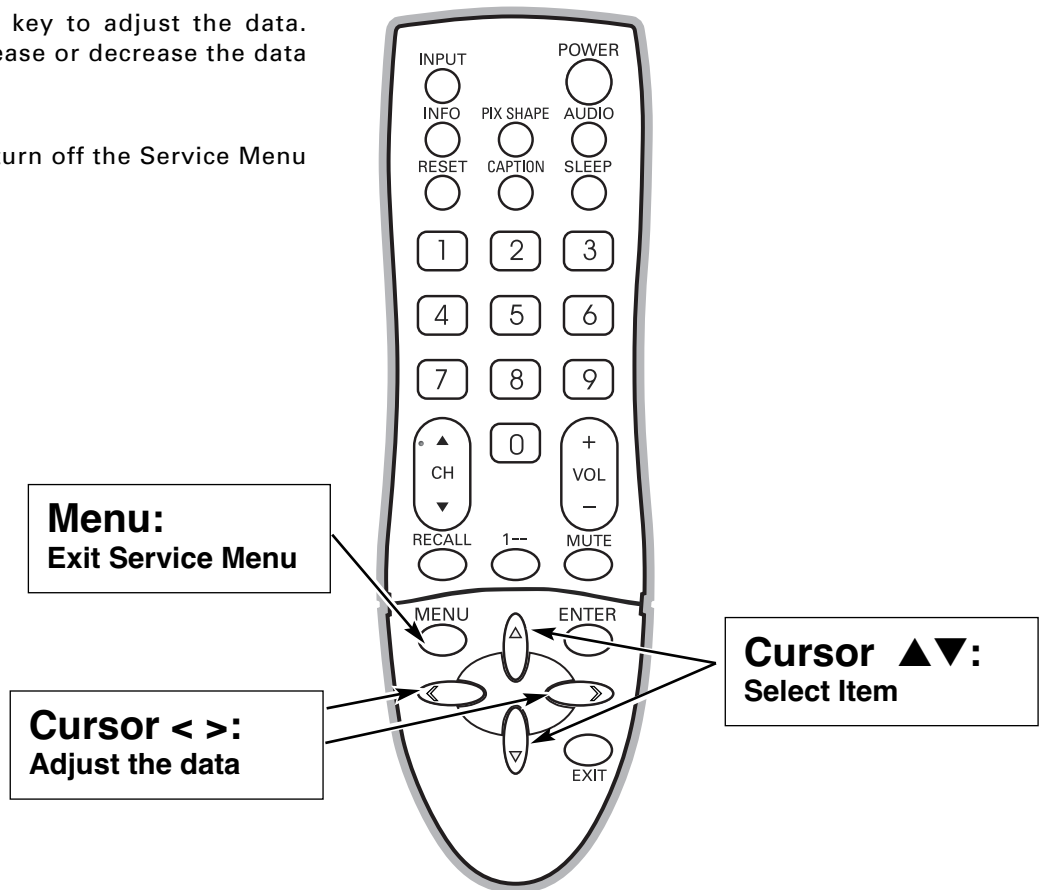


2. Service Adjustments:

- Press the Cursor ▲ or ▼ key to select the desired service menu item you want to adjust. *See page 4 for the On-screen Service Menu.*
- Use the Cursor < or > key to adjust the data. The < or > key will increase or decrease the data sequentially.

3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.



ON-SCREEN SERVICE MENU

Table 1. ON-SCREEN SERVICE MENU

When IC803 (EEPROM) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments.

No.	Title	Initial Data	Note
1A0	MUTE	A0h	Audio mute at Power ON
086	VOL	30h	Volume setup inspection
087	OP1	00h	Option 1 Data (TV Guide/HOTEL mode)
088	OP2	0Bh	Option 2 Data (Display Panel)
101	1R00	00h	ROM Correction Data
102	1R01	00h	ROM Correction Data
↓	↓	↓	↓
197	2R47	00h	ROM Correction Data
198	2R48	00h	ROM Correction Data

- All data except in gray box area is fixed. Do not change for correct operating.
- Data in gray box is initial and can be set according to adjustment information.

PROGRAM CODES

The microprocessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

Note 1. Option Data 1 (NO. 087 OP1) should be hexadecimal 00. See 087 above. If this program code is wrong the TV will not operate properly.

Note 2. Option Data 2 (NO. 088 OP2) should be hexadecimal 0B. See 088 above. If this program code is wrong the TV will not operate properly.

POWER FAILURE CIRCUIT

SUB-CPU (IC800) is programmed so the set will go to standby mode when there is circuit failure as described below. (Refer to "Block Diagram Power Lines".)

This unit is equipped with a Power Failure Detector function included in the SUB-CPU which checks for an abnormal condition in the chassis power supplies.

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the SUB-CPU will turn the unit off in 1.5 seconds to prevent further damage:

- Failure within the power supply circuits.
- A short circuit in the load side from the supply.

Power Failure: Detected voltage failure for circuit. (Connected to IC800 pin 48 and pin 23.)

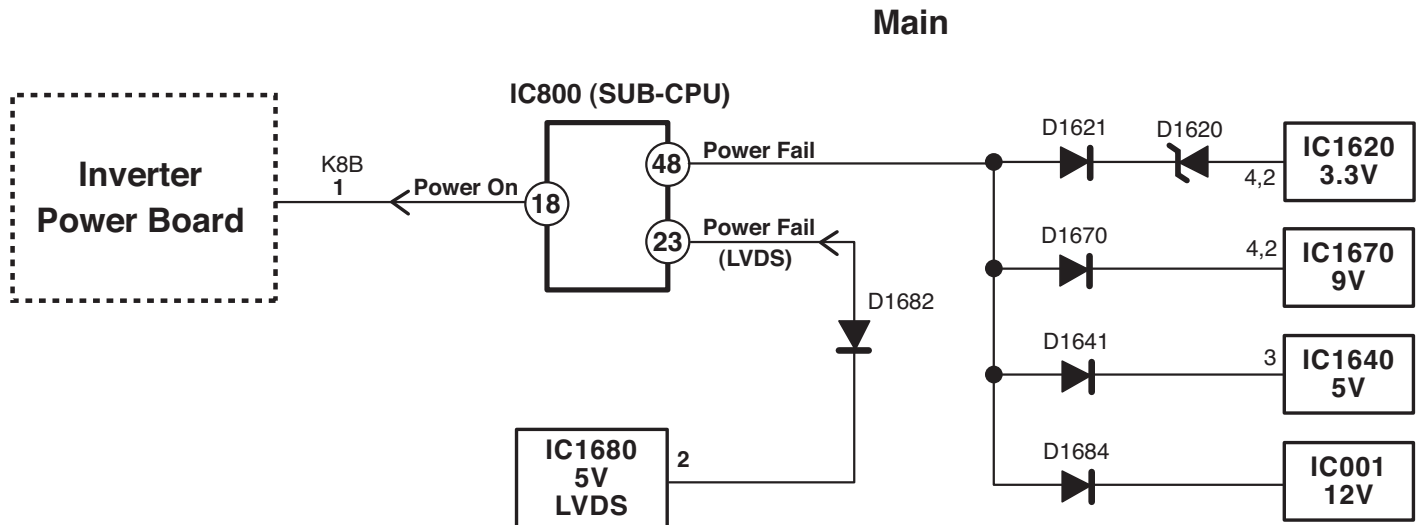
(Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the SUB-CPU will shut off the power within three seconds.

Check the following if the unit is turned off by the power failure detector.

1. Disconnect the AC power cord (120V AC line) for a short time.
2. Connect a DC Voltmeter to the circuits shown below.
3. Press the Power key and check for the proper voltage supplies.
4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
5. Check all circuits shown below.

Note: If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On. To reset the operating programs of the SUB-CPU it is necessary to disconnect the AC cord for a short time.



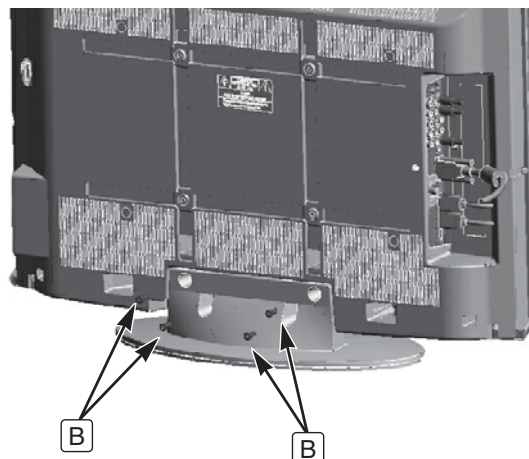
MECHANICAL DISASSEMBLY

CAUTION: This LCD TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing.

STAND REMOVAL

Position TV face down on a padded or cushioned surface to protect the screen and finish.

Remove 4 screws (B: 6X16) to take the stand off.



BACK CABINET REMOVAL

1. Remove the screws shown in figure.

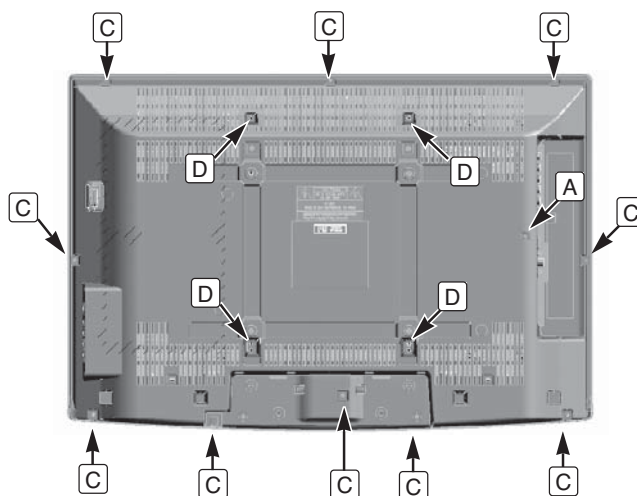
(C:3x14, 10 pcs.; D4x8, 4 pcs.; A3x6, 1 pcs.)

2. Lift the back cabinet and remove the lead wire connector.

3. Take the back cabinet off.

[ATTENTION]

Please do not tighten the (D) screw too strongly when you install the back cabinet again. The screw comes not to be tightened.

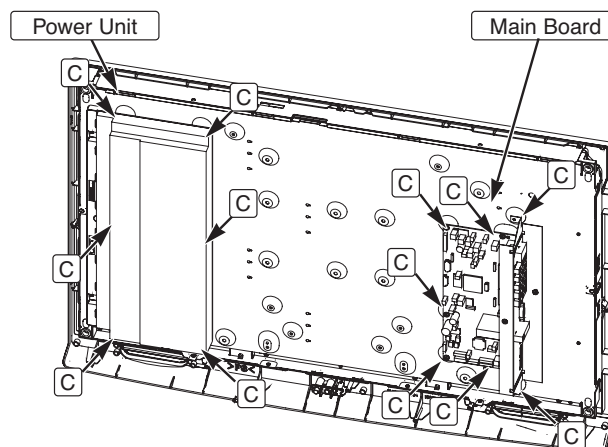


MAIN BOARD REMOVAL

Remove 7 screws (C:3x6) to take the main board off.

POWER UNIT REMOVAL

Remove 6 screws (C:3x6) to take the power unit off.





ELECTROSTATICALLY SENSITIVE DEVICES

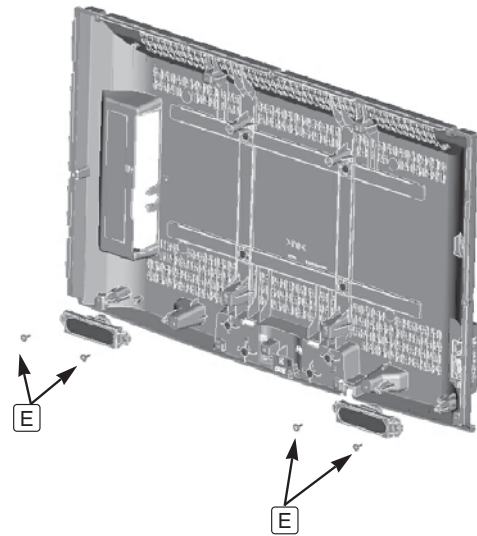
Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

LCD PANEL REMOVAL

Lift up the LCD panel from front cabinet.

SPEAKER REMOVAL

Remove 2 screws (E: 3x14) to take off each speaker.

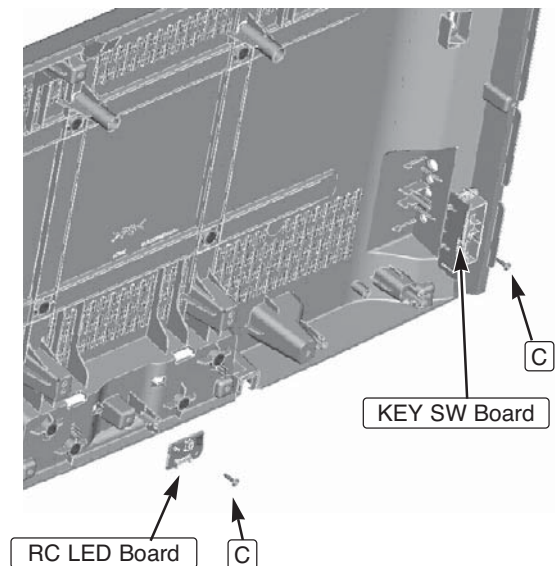


RC LED BOARD REMOVAL

Remove 1 screw (C: 3x14) to take the RC LED board off.

KEY SW BOARD REMOVAL

Remove 1 screw (C: 3x14) to take the KEY SW board off.



CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A Δ IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A Δ . NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A Δ .

Note: Schematic part location numbers may not always match with the part descriptions.
The part descriptions are correct and should be used.

Schematic Location	Part No.	Description
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CAPACITORS

NOTES:

Read description of the Capacitor as follows:

(Example)

CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
D : $\pm 0.5\text{pF}$ E : $\pm 0.1\text{pF}$ F : $\pm 1\text{pF}$
G : $\pm 2\text{pF}$ H : $\pm 0.1 - 0\text{pF}$ L : $\pm 0 - 0.1\text{pF}$
R : $\pm 0.25 - 0\text{pF}$ S : $\pm 0 - 0.25\text{pF}$

More than 10pF

A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
P : $\pm 100 - 0\%$ Q : $\pm 30 - 10\%$ T : $\pm 50 - 10\%$
U : $\pm 75 - 10\%$ V : $\pm 20 - 10\%$ W : $\pm 100 - 10\%$
X : $\pm 40 - 20\%$ Y : $\pm 150 - 10\%$ Z : $\pm 80 - 20\%$

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO..... Metallized Polypropylene
COMPO FILM..... Composite Film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Solid
AL-SOLID..... Aluminium Solid
ELECT..... Electrolytic
NP-ELECT..... Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic
Semi-conductive Electrolytic

Schematic Location	Part No.	Description
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RESISTORS

NOTES:

Read description of the Resistor as follows:

(Example)

CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:

A...General B...Non-flammable
Z...Low noise
Other... Temperature coefficient

Tolerance Symbols:

A...0.05% B...0.1% C...25%
D...0.5% F...1% G...2%
J...5% K...10% M...20%
P... $\pm 5 - 15\%$

Rated Value, ohms:

K...1,000 M...1,000,000

Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND..... Wire Wound
CERAMIC RES..... Ceramic
FUSIBLE RES..... Fusible

Schematic Location	Part No.	Description
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CAPACITORS

C016	CK1E105KGMBNG	CERAMIC 1U K 25V
C017	CEXLB1C222VDN	ELECT 2200U M 16V
C018	CK1A105KLZBNG	CERAMIC 1U K 10V
C019	CK1A105KLZBNG	CERAMIC 1U K 10V
C020	CEXLB1C102VDN	ELECT 1000U M 16V
C021	CK1A105KLZBNG	CERAMIC 1U K 10V
C022	CK1A105KLZBNG	CERAMIC 1U K 10V
C023	CK1A105KLZBNG	CERAMIC 1U K 10V
C024	CK1E474KLZBNG	CERAMIC 0.47U K 25V
C025	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C027	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C028	CK1A105KLZBNG	CERAMIC 1U K 10V
C029	CK1E474KLZBNG	CERAMIC 0.47U K 25V
C030	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C031	CEXLB1H100VDN	ELECT 10U M 50V
C032	CK1E105KGMBNG	CERAMIC 1U K 25V
C033	CK1A105KLZBNG	CERAMIC 1U K 10V
C035	CK1A105KLZBNG	CERAMIC 1U K 10V
C038	CK1A105KLZBNG	CERAMIC 1U K 10V
C039	CK1A105KLZBNG	CERAMIC 1U K 10V
C040	CK1E474KLZBNG	CERAMIC 0.47U K 25V
C041	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C043	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C044	CK1E474KLZBNG	CERAMIC 0.47U K 25V
C045	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C047	CK1E105KGMBNG	CERAMIC 1U K 25V
C048	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C049	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C050	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C051	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C800	CK1A105KLZBNG	CERAMIC 1U K 10V
C801	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C802	CC1H470JLZCNG	CERAMIC 47P J 50V
C804	CEXLB0J221VDN	ELECT 220U M 6.3V
C805	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C806	CC1H270JLZCNG	CERAMIC 27P J 50V
C807	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C813	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C815	CC1H270JLZCNG	CERAMIC 27P J 50V
C816	CC1H270JLZCNG	CERAMIC 27P J 50V
C817	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C818	CC1H220JLZCNG	CERAMIC 22P J 50V
C819	CC1H220JLZCNG	CERAMIC 22P J 50V
C1000	CEXLB1V470VDN	ELECT 47U M 35V
C1002	CK1A105KLZBNG	CERAMIC 1U K 10V
C1004	CK1A105KLZBNG	CERAMIC 1U K 10V
C1006	CK1A105KLZBNG	CERAMIC 1U K 10V
C1008	CK1A105KLZBNG	CERAMIC 1U K 10V
C1010	CK1A105KLZBNG	CERAMIC 1U K 10V
C1012	CK1A105KLZBNG	CERAMIC 1U K 10V
C1014	CK1A105KLZBNG	CERAMIC 1U K 10V
C1016	CK1A105KLZBNG	CERAMIC 1U K 10V
C1611	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1612	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1616	CK1H473KLZBNG	CERAMIC 0.047U K 50V

Schematic Location	Part No.	Description
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C1620	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C1622	CEXLB0J221VEN	ELECT 220U M 6.3V
C1623	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1624	CEXLB1C471VEN	ELECT 470U M 16V
C1640	CEXLB1C101VEN	ELECT 100U M 16V
C1641	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C1642	CK1H223KLZBNG	CERAMIC 0.022U K 50V
C1643	CK1A105KLZBNG	CERAMIC 1U K 10V
C1645	CK1H472KLZBNG	CERAMIC 4700P K 50V
C1646	CK1A105KLZBNG	CERAMIC 1U K 10V
C1647	CEXLB0J102VEN	ELECT 1000U M 6.3V
C1670	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1671	CK1E105KGMBNG	CERAMIC 1U K 25V
C1672	CEXLB1V470VDN	ELECT 47U M 35V
C1673	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C1674	CEXLB1C471VDN	ELECT 470U M 16V
C1836	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C1837	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
G2403	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
G2404	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
G2405	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
G2406	CEXLB0J221VDN	ELECT 220U M 6.3V
G2408	CK1A105KLZBNG	CERAMIC 1U K 10V
G2410	CK1A105KLZBNG	CERAMIC 1U K 10V
G2440	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
G2445	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5500	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C5501	CK1A105KLZBNG	CERAMIC 1U K 10V
C5502	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5503	CK1A105KLZBNG	CERAMIC 1U K 10V
C5504	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5505	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C5506	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5507	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5508	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5509	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5510	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5511	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5512	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5513	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5515	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5516	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5517	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C5518	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5519	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5521	CK1A105KLZBNG	CERAMIC 1U K 10V
C5522	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5523	CK0J106KGMBNG	CERAMIC 10U K 6.3V
C5524	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5525	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5526	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5527	CK1H104ZLFNG	CERAMIC 0.1U Z 50V
C5528	CC1H471JLZCNG	CERAMIC 470P J 50V
C5529	CC1H471JLZCNG	CERAMIC 470P J 50V
C5530	CK1A105KLZBNG	CERAMIC 1U K 10V
C5531	CK1A105KLZBNG	CERAMIC 1U K 10V

Schematic Location	Part No.	Description
C5532	CC1H471JLZCNG	CERAMIC 470P J 50V
C5533	CC1H471JLZCNG	CERAMIC 470P J 50V
C5534	CK0J106KGBNG	CERAMIC 10U K 6.3V
C5535	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5536	CK1A105KLZBNG	CERAMIC 1U K 10V
C5537	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5538	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5539	CC1H471JLZCNG	CERAMIC 470P J 50V
C5540	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5541	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5542	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5543	CC1H120JLZCNG	CERAMIC 12P J 50V
C5544	CC1H3R0CLZCNG	CERAMIC 3P C 50V
C5545	CC1H390JLZCNG	CERAMIC 39P J 50V
C5546	CC1H120JLZCNG	CERAMIC 12P J 50V
C5547	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5548	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5549	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5550	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5551	CK1A105KLZBNG	CERAMIC 1U K 10V
C5552	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5553	CK0J106KGBNG	CERAMIC 10U K 6.3V
C5554	CK1A105KLZBNG	CERAMIC 1U K 10V
C5555	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5556	CK0J106KGBNG	CERAMIC 10U K 6.3V
C5558	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5559	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5560	CK0J106KGBNG	CERAMIC 10U K 6.3V
C5561	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5563	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5564	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5565	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5566	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5568	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5569	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5570	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5572	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5574	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5575	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5576	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5577	CK1A105KLZBNG	CERAMIC 1U K 10V
C5578	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5580	CK1E474KLZBNG	CERAMIC 0.47U K 25V
C5581	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5583	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5585	CC1H221JLZCNG	CERAMIC 220P J 50V
C5588	CK1A105KLZBNG	CERAMIC 1U K 10V
C5589	CK1A105KLZBNG	CERAMIC 1U K 10V
C5590	CK1A105KLZBNG	CERAMIC 1U K 10V
C5591	CK1A105KLZBNG	CERAMIC 1U K 10V
C5592	CK1A105KLZBNG	CERAMIC 1U K 10V
C5593	CK1A105KLZBNG	CERAMIC 1U K 10V
C5594	CK1A105KLZBNG	CERAMIC 1U K 10V
C5595	CK1A105KLZBNG	CERAMIC 1U K 10V
C5596	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5597	CK1E224KLZBNG	CERAMIC 0.22U K 25V

Schematic Location	Part No.	Description
C5598	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5599	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5600	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5601	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5602	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5603	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5604	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5607	CC1H150JLZCNG	CERAMIC 15P J 50V
C5608	CC1H220JLZCNG	CERAMIC 22P J 50V
C5611	CK1H103KLZBNG	CERAMIC 0.01U K 50V
C5612	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5613	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5614	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C5616	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5618	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5619	CK1A105KLZBNG	CERAMIC 1U K 10V
C5620	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5621	CK0J106KGBNG	CERAMIC 10U K 6.3V
C5622	CK1A105KLZBNG	CERAMIC 1U K 10V
C5623	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5624	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5625	CK0J106KGBNG	CERAMIC 10U K 6.3V
C5627	CC1H680JLZCNG	CERAMIC 68P J 50V
C5628	CC1H680JLZCNG	CERAMIC 68P J 50V
C5629	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5630	CK1A105KLZBNG	CERAMIC 1U K 10V
C5631	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5632	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5647	CC1H221JLZCNG	CERAMIC 220P J 50V
C5648	CC1H221JLZCNG	CERAMIC 220P J 50V
C5649	CC1H221JLZCNG	CERAMIC 220P J 50V
C5653	CC1H221JLZCNG	CERAMIC 220P J 50V
C5654	CC1H221JLZCNG	CERAMIC 220P J 50V
C5655	CC1H221JLZCNG	CERAMIC 220P J 50V
C5700	CK1A105KLZBNG	CERAMIC 1U K 10V
C5701	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5702	CK1A105KLZBNG	CERAMIC 1U K 10V
C5703	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5704	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5705	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5707	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5708	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5709	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5711	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5712	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5713	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5750	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5751	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V
C5752	CEXLB0J221VEN	ELECT 220U M 6.3V
C5800	CC1H680JLZCNG	CERAMIC 68P J 50V
C5801	CC1H680JLZCNG	CERAMIC 68P J 50V
C5802	CC1H680JLZCNG	CERAMIC 68P J 50V
C5803	CC1H270JLZCNG	CERAMIC 27P J 50V
C5804	CC1H270JLZCNG	CERAMIC 27P J 50V
C5805	CC1H270JLZCNG	CERAMIC 27P J 50V

Schematic Location	Part No.	Description
C5806	CC1H150JLZCNG	CERAMIC 15P J 50V
C5807	CC1H150JLZCNG	CERAMIC 15P J 50V
C5808	CC1H150JLZCNG	CERAMIC 15P J 50V
C5809	CC1H120JLZCNG	CERAMIC 12P J 50V
C5810	CC1H120JLZCNG	CERAMIC 12P J 50V
C5811	CC1H120JLZCNG	CERAMIC 12P J 50V
C5812	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C5813	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C5814	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C5815	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C5816	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5817	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C5901	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C5902	CK1E224KLZBNG	CERAMIC 0.22U K 25V
C6100	CK1H102KLZBNG	CERAMIC 1000P K 50V
C6102	CC1H270JLZCNG	CERAMIC 27P J 50V
C6103	CC1H270JLZCNG	CERAMIC 27P J 50V
C6104	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6105	CExLB0J221VDN	ELECT 220U M 6.3V
C6107	CExLB1C102VDN	ELECT 1000U M 16V
C6108	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6111	CK1H102KLZBNG	CERAMIC 1000P K 50V
C6112	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
C6113	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
C6250	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6251	CExLB1V470VEN	ELECT 47U M 35V
C6252	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6253	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6254	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6255	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6270	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6271	CExLB1V470VEN	ELECT 47U M 35V
C6272	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6273	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6274	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6275	CK0J475KLZBNG	CERAMIC 4.7U K 6.3V
C6300	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6301	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6302	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6303	CExLB1C221VEN	ELECT 220U M 16V
C6304	CExLB1V470VEN	ELECT 47U M 35V
C6305	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6382	CK1A105KLZBNG	CERAMIC 1U K 10V
C6500	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6501	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6550	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6551	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6600	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C6601	CK1A105KLZBNG	CERAMIC 1U K 10V
C6602	CExLB1C471VDN	ELECT 470U M 16V
C6701	CK1A105KLZBNG	CERAMIC 1U K 10V
C6702	CK1H104KLZBNG	CERAMIC 0.1U K 50V
C6703	CK1A105KLZBNG	CERAMIC 1U K 10V
C6705	CExLB0J221VEN	ELECT 220U M 6.3V
C6706	CExLB0J102VEN	ELECT 1000U M 6.3V

Schematic Location	Part No.	Description
DIODES		
D017	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
D020	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
D801	DZUDZS3.9B—G	ZD UDZS-TE-173.9B
D1620	DZUDZS3.0B—G	ZENER DIODE UDZS3.0B-TE-1
D1621	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
D1640	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
D1670	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
D1684	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
D1762	DD1SS352—G	DIODE 1SS352-(TPH3)
	DD1SS355—G	DIODE 1SS355-TE-17
D2403	DDR551V-30-G	DIODE RB551V-30-TE-17
D2404	DDR551V-30-G	DIODE RB551V-30-TE-17

INTEGRATED CIRCUITS

IC001	QLV49152V-E-P	IC LV49152V-TLM-E
IC025	QTC7SET08FU-P	IC TC7SET08FU-(TE85L)
IC800	QXXAAJQ0973—	IC LC87F2932AVU-Y09LCD
IC800A	QXXGA0500125M	IC LC87F2932AVU-QIP-E
IC803	QLE24C023M-EP	IC LE24C023M-TLM-E
	QXXAVC837—P	IC AT24C02BN-10SU-1.8
	QXXAVC986—P	IC CAT24C02WI-GT3
IC905	QTC7SET08FU-P	IC TC7SET08FU-(TE85L)
IC1620	QLM1117S-ADJP	IC LM1117S-ADJ
IC1640	QLV5803M-E—P	IC LV5803M-TE-L-E
IC1670	QLM1117S-ADJP	IC LM1117S-ADJ
IC2401	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC2402	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC2403	QLE24C023M-EP	IC LE24C023M-TLM-E
	QXXAVC837—P	IC AT24C02BN-10SU-1.8
	QXXAVC986—P	IC CAT24C02WI-GT3
IC2440	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC2445	QTC7SH08FU—P	IC TC7SH08FU(TE85L)
IC5500	QXXAVD108—M	IC ZR39772HGC-F-B
IC5700	QXXAVD132—M	IC H5PS5162FFR-25C
IC5750	QXXAAJQ0990—	IC NAND128W3A2BN6E N7BE
IC5750A	QXXAVC973—M	IC NAND128W3A2BM6E
IC5900	QXXAVD046—P	IC XC6108N28AMR
IC6250	QBA4558RF-E2P	IC BA4558RF-E2
	QNJM4558M—P	IC NJM4558M-TE2
IC6270	QBA4558RF-E2P	IC BA4558RF-E2
	QNJM4558M—P	IC NJM4558M-TE2
IC6500	QTC7SET08FU-P	IC TC7SET08FU-(TE85L)
IC6550	QTC7SET08FU-P	IC TC7SET08FU-(TE85L)
IC6600	QRT9711CGB—P	IC RT9711CGB
IC6700	QPQ070XNA1ZPP	IC PQ070XNA1ZPH

Schematic Location	Part No.	Description
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COILS

L011	1LB4L26B1180G	INDUCTOR 10U M
L012	1LB4L26B1180G	INDUCTOR 10U M
L013	1LB4L26B1180G	INDUCTOR 10U M
L014	1LB4L26B1180G	INDUCTOR 10U M
L800	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L1610	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1611	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1620	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1621	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1641	1LB4L26B1180G	INDUCTOR 10U M
L1644	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1676	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1677	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1682	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1683	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1684	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1685	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1702	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L1703	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1706	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1708	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1709	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L1710	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1711	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1725	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1831	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L2400	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5500	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5501	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L5503	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5504	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5505	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L5506	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L5507	1AV4L2GAR22JG	"INDUCTOR,0.22U J"
L5508	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5509	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
L5510	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L5511	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L5512	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5513	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5514	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L5515	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L5517	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5518	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5519	1AV4L26B1940G	"INDUCTOR,120 OHM"
L5750	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L5800	1AV4L2GA150JG	"INDUCTOR,15U J"
L5801	1AV4L2GA150JG	"INDUCTOR,15U J"
L5802	1AV4L2GA150JG	"INDUCTOR,15U J"
L5803	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6100	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6101	1AV4L26B1940G	"INDUCTOR,120 OHM"
	1LB4L26B0700G	"INDUCTOR , 120 OHM"
L6102	1AV4L26B1940G	"INDUCTOR,120 OHM"
	1LB4L26B0700G	"INDUCTOR , 120 OHM"

Schematic Location	Part No.	Description
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L6103	1AV4L2FB3R3MG	"INDUCTOR,3.3U M"
L6250	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6270	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6302	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6303	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L6304	1AV4L3CY201MG	"IMPEDANCE,200 OHM M"
L6305	1AV4L3CY201MG	"IMPEDANCE,200 OHM M"
L6306	1AV4L3CY201MG	"IMPEDANCE,200 OHM M"
L6550	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6700	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6702	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L6705	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L6706	1LB4L26B0740G	"INDUCTOR , 220 OHM"
L6707	1LB4L26B0740G	"INDUCTOR , 220 OHM"

TRANSISTORS

Q800	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
	TXXLBB005—P	TR MMBTSA1235F
Q804	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
	TXXLBB005—P	TR MMBTSA1235F
Q805	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q806	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1001	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1002	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1003	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1004	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1005	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1006	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1007	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1008	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	TXXLBB006—P	TR MMBTSC3928R
Q1610	TMCH6331-S-EG	TR MCH6331-S-TL-E
Q1751	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

Schematic Location	Part No.	Description
Q2400	TXXLBB006—P	TR MMBTSC3928R
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q2401	TXXLBB006—P	TR MMBTSC3928R
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q2402	TXXLBB006—P	TR MMBTSC3928R
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q5800	TXXLBB006—P	TR MMBTSC3928R
	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
Q5801	TXXLBB005—P	TR MMBTSA1235F
	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
Q5802	TXXLBB005—P	TR MMBTSA1235F
	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
Q5803	TXXLBB005—P	TR MMBTSA1235F
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q5804	TXXLBB006—P	TR MMBTSC3928R
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q5805	TXXLBB006—P	TR MMBTSC3928R
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q6301	TXXLBB006—P	TR MMBTSC3928R
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q6302	TXXLBB006—P	TR MMBTSC3928R
Q6302	T2SC2411K-Q-P	TR 2SC2411K-T146-Q
Q6303	TXXLBB006—P	TR MMBTSC3928R
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q6304	TXXLBB006—P	TR MMBTSC3928R
	TMCH6331-S-EG	TR MCH6331-S-TL-E
Q6380	TXXLBB005—P	TR MMBTSA1235F
	TISA1235AC1EP	TR ISA1235AC1E
	TISA1235AC1FP	TR ISA1235AC1F
Q6501	TXXLBB005—P	TR MMBTSA1235F
	TUM6K1N—P	TR UM6K1N-TN
	TUM6K1N—P	TR UM6K1N-TN

RESISTORS

R009	RGF2201JTCANL	MT-GLAZE	2.2K JA 1/10W
R010	RGF2201JTCANL	MT-GLAZE	2.2K JA 1/10W
R011	RGF2201JTCANL	MT-GLAZE	2.2K JA 1/10W
R013	RGFR000ZTCANL	MT-GLAZE	0.000 ZA 1/10W
R014	RGF2201JTCANL	MT-GLAZE	2.2K JA 1/10W
R015	RGF5601FTCANL	MT-GLAZE	5.6K FA 1/10W
R016	RGF1501FTCANL	MT-GLAZE	1.5K FA 1/10W
R021	RGF2R70JTCANL	MT-GLAZE	2.7 JA 1/10W
R022	RGF2R70JTCANL	MT-GLAZE	2.7 JA 1/10W
R024	RGF1002JTCANL	MT-GLAZE	10K JA 1/10W
R025	RGFR000ZTCANL	MT-GLAZE	0.000 ZA 1/10W
R028	RGFR000ZTCANL	MT-GLAZE	0.000 ZA 1/10W

Schematic Location	Part No.	Description
R030	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R800	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R801	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R802	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R804	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R807	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R808	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R809	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R813	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R816	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R817	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R820	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R823	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R825	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R827	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R828	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R829	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R830	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R831	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R832	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R833	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R834	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R836	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R837	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R838	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R839	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R840	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R841	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R842	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R843	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R844	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R845	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R846	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R847	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R850	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R851	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R852	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R853	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R854	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R856	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R857	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R858	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R867	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R868	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R871	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R872	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R873	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R874	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R877	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R878	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R879	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R880	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R883	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R884	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R885	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R888	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R891	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R892	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R894	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R897	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R898	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R899	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R900	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R901	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R902	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R903	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R905	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R908	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R910	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R911	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1000	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1004	RGF82R0JTCANL	MT-GLAZE 82 JA 1/10W
R1007	CC1H680JLZCNG	CERAMIC 68P J 50V
R1009	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1010	RGF82R0JTCANL	MT-GLAZE 82 JA 1/10W
R1011	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1016	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1017	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1018	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1019	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1020	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1021	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1022	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1023	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1031	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1033	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1042	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1043	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1044	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1045	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1046	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1047	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1048	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R1049	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1050	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R1051	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W
R1052	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1053	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1054	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1055	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1056	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1057	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1058	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1059	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1060	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1061	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1062	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1063	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1614	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1615	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R1620	RGF1200FTCANL	MT-GLAZE 120 FA 1/10W
R1621	RGF12R0JTCANL	MT-GLAZE 12 JA 1/10W

Schematic Location	Part No.	Description
R1622	RGF2200FTCANL	MT-GLAZE 220 FA 1/10W
R1641	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1642	RGF1002FTCANL	MT-GLAZE 10K FA 1/10W
R1643	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R1644	RGF6800FTCANL	MT-GLAZE 680 FA 1/10W
R1645	RGF3301FTCANL	MT-GLAZE 3.3K FA 1/10W
R1670	RGF1200FTCANL	MT-GLAZE 120 FA 1/10W
R1671	RGF12R0JTCANL	MT-GLAZE 12 JA 1/10W
R1672	RGF8200FTCANL	MT-GLAZE 820 FA 1/10W
R1685	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R1686	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R1687	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1688	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1700	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1701	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1702	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1765	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1767	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1771	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1831	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R2404	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2405	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2406	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2407	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R2408	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2411	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R2417	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R2418	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R2419	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R2420	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R2421	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R2422	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2423	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2424	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R2425	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R2426	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R2427	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R2428	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R2432	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R2433	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R2440	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2442	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R2447	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R2448	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3300	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3301	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5501	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5503	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5504	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5505	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5506	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5507	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5508	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5512	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5513	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5514	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W

Schematic Location	Part No.	Description
R5515	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5516	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5517	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5518	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5520	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5522	RGF8200FTCANL	MT-GLAZE 820 FA 1/10W
R5524	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5526	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5527	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5529	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5531	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5532	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5538	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5539	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5540	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5542	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R5543	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R5544	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5545	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R5546	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R5547	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5548	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R5549	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5550	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R5551	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5552	RGF3901JTCANL	MT-GLAZE 3.9K JA 1/10W
R5553	RGF3900FTCANL	MT-GLAZE 390 FA 1/10W
R5554	RGF3900FTCANL	MT-GLAZE 390 FA 1/10W
R5556	RGF1004JTCANL	MT-GLAZE 1M JA 1/10W
R5557	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R5558	RGF1503JTCANL	MT-GLAZE 150K JA 1/10W
R5559	RGF3900JTCANL	MT-GLAZE 390 JA 1/10W
R5560	RGF8200FTCANL	MT-GLAZE 820 FA 1/10W
R5561	RGF8200FTCANL	MT-GLAZE 820 FA 1/10W
R5562	RGF27R0JTCANL	MT-GLAZE 27 JA 1/10W
R5563	RGF27R0JTCANL	MT-GLAZE 27 JA 1/10W
R5565	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5566	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5567	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5568	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5571	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5573	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5574	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5575	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5576	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5580	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5581	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5582	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5583	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5584	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5585	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5586	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5587	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5591	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5592	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5597	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R5598	RGF27R0FTCANL	MT-GLAZE 27 FA 1/10W
R5599	RGF1000FTCANL	MT-GLAZE 100 FA 1/10W
R5600	RGF1000FTCANL	MT-GLAZE 100 FA 1/10W
R5601	RGF4700FTCANL	MT-GLAZE 470 FA 1/10W
R5602	RGF8200FTCANL	MT-GLAZE 820 FA 1/10W
R5603	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5604	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5608	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5613	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5614	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5616	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5618	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5620	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5622	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5624	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5630	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5631	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5632	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5633	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5635	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5640	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5642	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5643	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5644	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5645	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5646	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5647	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5648	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5649	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5650	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R5651	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R5652	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R5653	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5654	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5655	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5656	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5657	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5658	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5659	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5660	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5661	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5662	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R5663	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R5664	RGF10R0JTCANL	MT-GLAZE 10 JA 1/10W
R5665	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5666	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R5700	RGF1000FTCANL	MT-GLAZE 100 FA 1/10W
R5701	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5702	RGF1000FTCANL	MT-GLAZE 100 FA 1/10W
R5750	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5752	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R5778	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5803	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5804	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5805	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5806	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W

Schematic Location	Part No.	Description
R5807	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5808	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5812	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5814	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5816	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5818	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5819	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5820	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R5821	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5822	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5823	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5827	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5828	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5829	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5830	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5831	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5832	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R5833	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R5834	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5835	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5836	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5837	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5838	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R5900	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5901	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R5902	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R5950	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5952	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5954	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5956	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R5957	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R5960	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6100	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6101	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R6250	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6251	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R6252	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6253	RGF6802JTCANL	MT-GLAZE 68K JA 1/10W
R6254	RGF6802JTCANL	MT-GLAZE 68K JA 1/10W
R6255	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6271	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6272	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R6273	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6274	RGF6802JTCANL	MT-GLAZE 68K JA 1/10W
R6275	RGF6802JTCANL	MT-GLAZE 68K JA 1/10W
R6276	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6311	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6314	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6317	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6318	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6327	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R6328	RGF6800JTCANL	MT-GLAZE 680 JA 1/10W
R6331	RGF1504JTCANL	MT-GLAZE 1.5M JA 1/10W
R6332	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6333	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6334	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W

Schematic Location	Part No.	Description
R6336	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R6338	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R6380	RGF3300JTCANL	MT-GLAZE 330 JA 1/10W
R6382	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6386	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R6390	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6500	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6501	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6502	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6503	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6504	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R6505	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R6506	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6507	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6508	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R6509	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6510	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6511	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6512	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6513	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6514	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6515	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6516	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6517	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R6520	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R6550	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6551	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6552	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6553	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6554	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R6555	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R6556	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R6557	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6558	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R6559	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R6560	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6561	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6562	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6563	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6564	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6565	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6566	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6567	RGF4R70JTCANL	MT-GLAZE 4.7 JA 1/10W
R6568	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R6571	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R6600	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6602	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R6606	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6607	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6608	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R6609	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6610	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6701	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R6702	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R6703	RGF4700FTCANL	MT-GLAZE 470 FA 1/10W
R6704	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W

Schematic Location	Part No.	Description
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CRYSTAL / FILTERS

X5500	1AV4V10B9210G	"OSC,CRYSTAL 25MHZ"
X800	1AV4V11B1771G	"OSC,CERAMIC 8.00MHZ"
X801	1AV4V10B0560N	"OSC,CRYSTAL 32.768KHZ"

MISCELLANEOUS

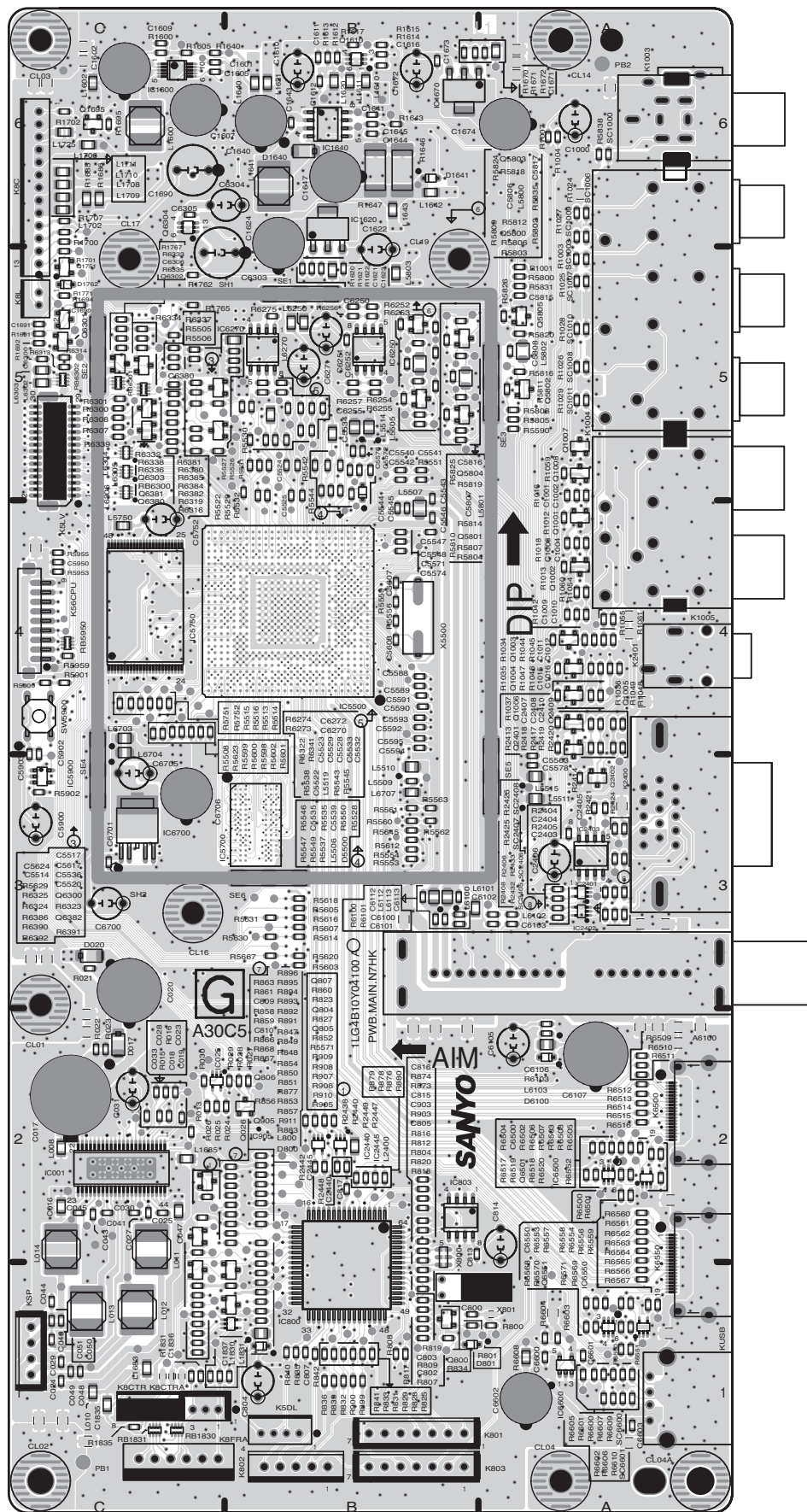
⚠ A6100	1AV4F1BAZ0090	"TUNER,U/V"
⚠ EL901	1AV4T40C12700	"LCD(T260XW04 V0)
K1004	1LB4J12B11700	"JACK,RCA-9"
K1005	1LB4J12B11600	"JACK,RCA-6"
K2400	1LB4J11B0630N	"SOCKET,D-SUB 15P"
K2401	1LB4J12B11900	"JACK,PHONE D3.6"
K6500	1AV4J11B8591G	"SOCKET,IF(HDMI) 19P"
K6550	1AV4J11B8591G	"SOCKET,IF(HDMI) 19P"
KUSB	1LB4J11B0550N	"SOCKET,USB 4P"
PB001	1LG4B10Y04100	"PWB,MAIN, N7HK"
SP901	1LB4A10B11500	"SPEAKER,8"
SP902	1LB4A10B11500	"SPEAKER,8"
⚠ W901	1AV4W10B17902	"CORD,POWER-2.0MK-VTR-02"
⚠ WK5LV	1LB4W30B20700	"CORD ,30P-30P(LVDS)"

Schematic Location	Part No.	Description
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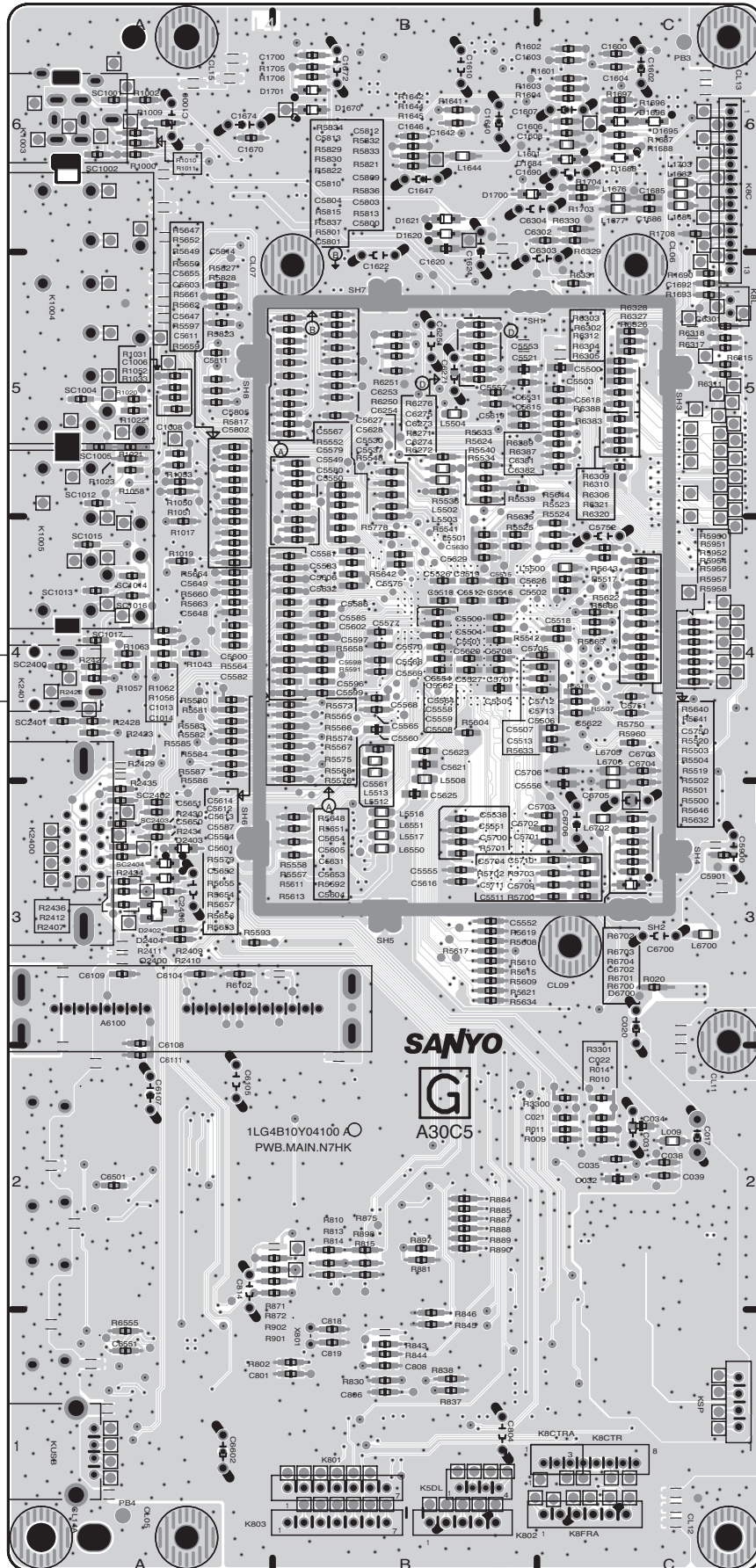
POWER BOARD

⚠ U901	1AV4U20C44800	"UNIT,INVERTER-POWER"
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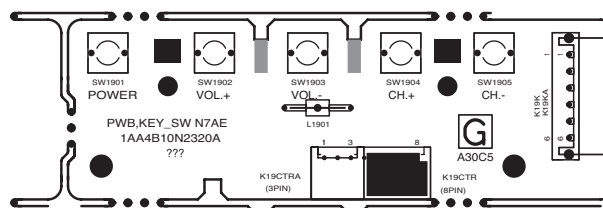
MAIN BOARD PARTS SIDE



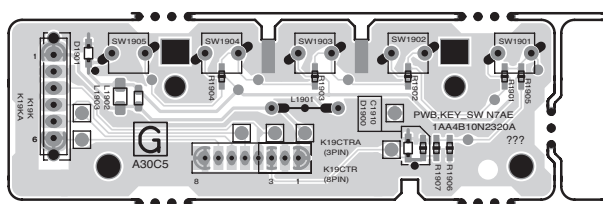
MAIN BOARD SOLDER SIDE



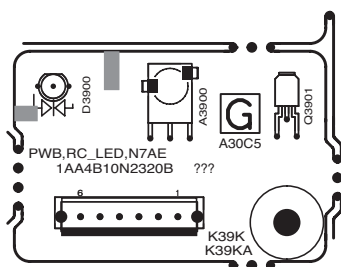
CONTROL BOARD PART SIDE



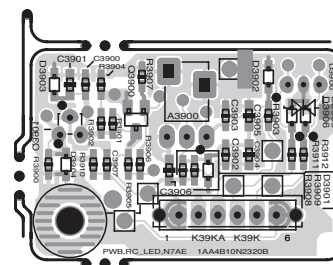
CONTROL BOARD SOLDER SIDE



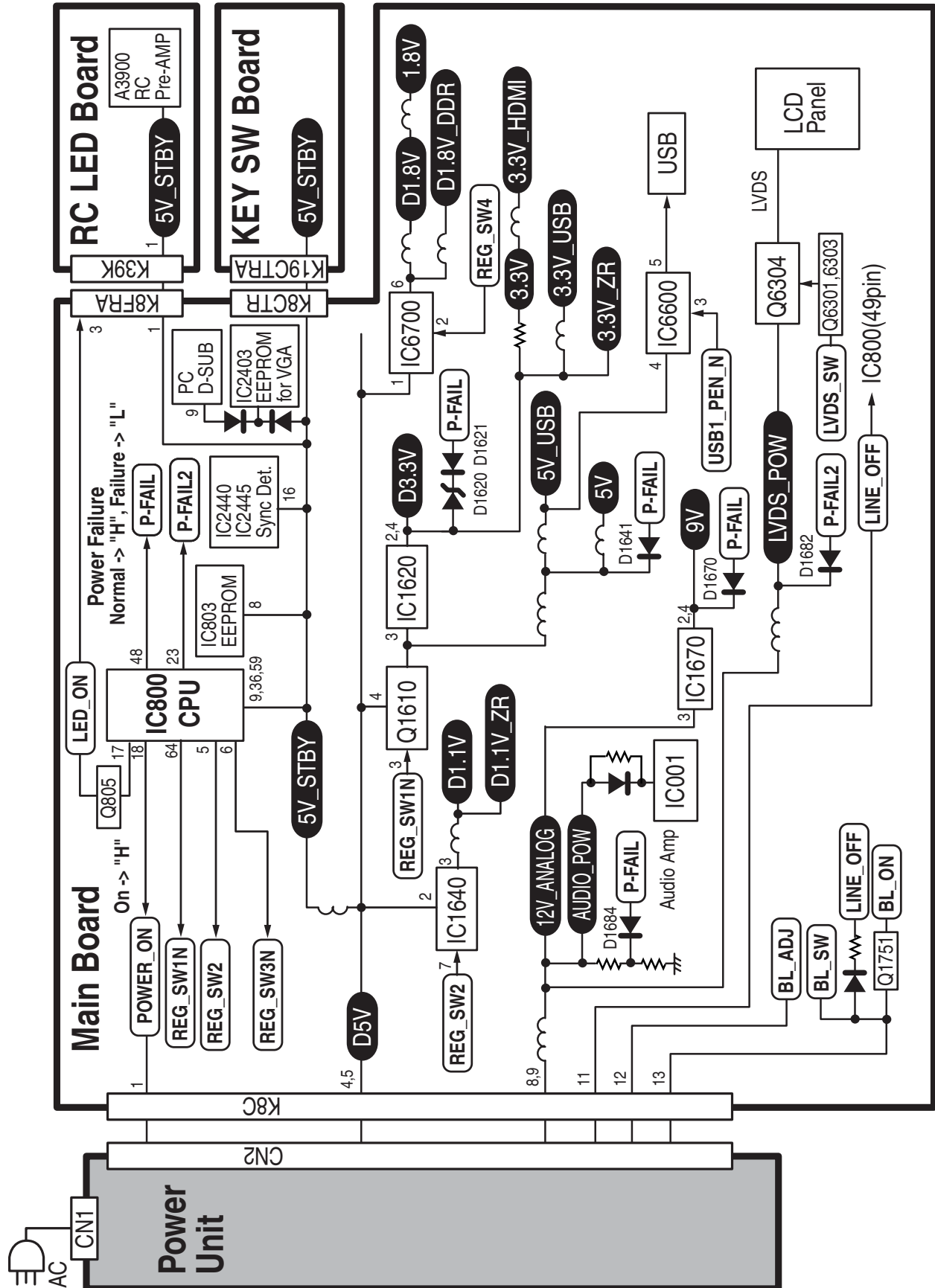
PWB RC_LED PART SIDE



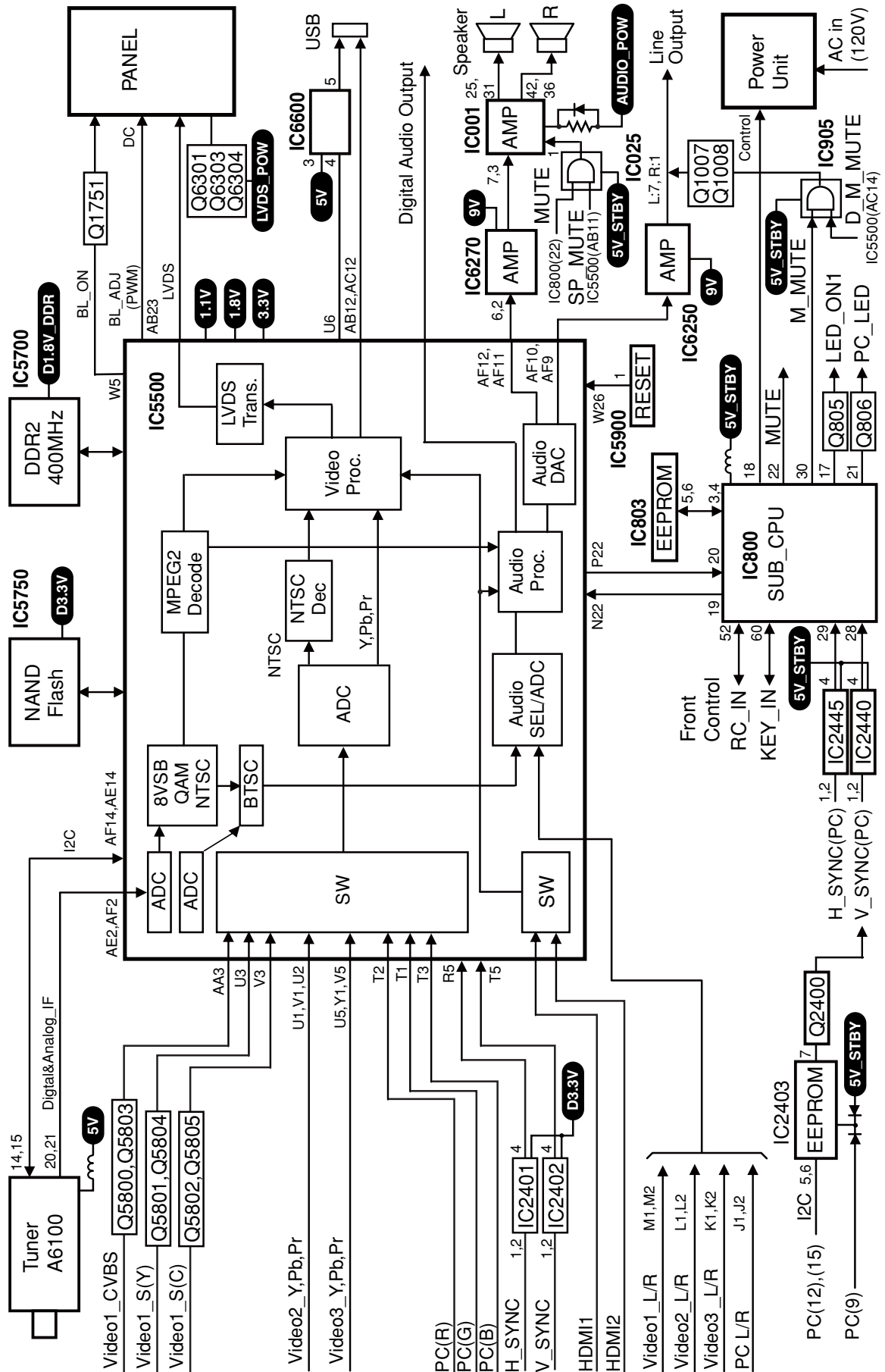
PWB RC_LED SOLDER SIDE



BLOCK DIAGRAM POWER LINES

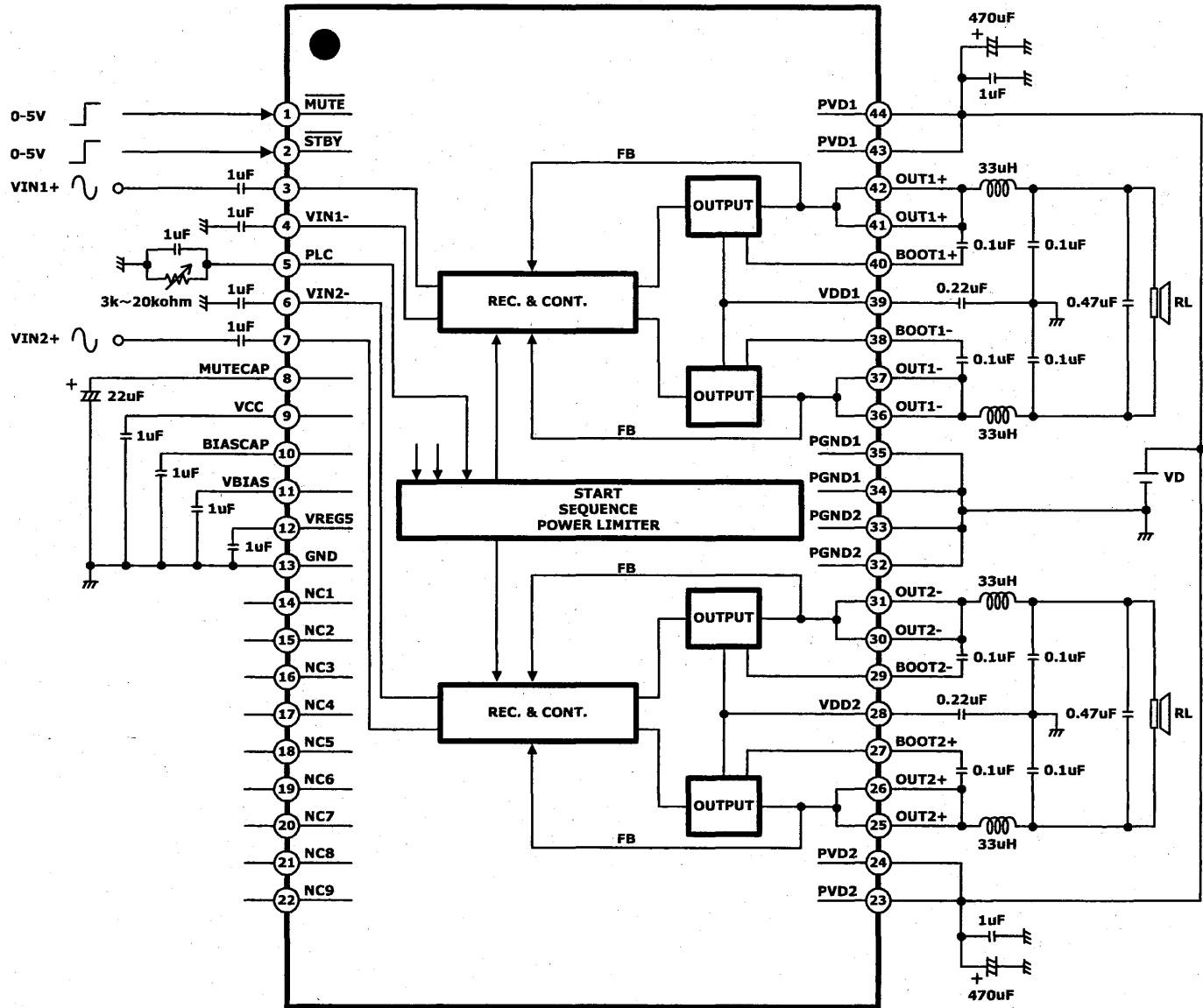


BLOCK DIAGRAM SIGNAL LINES



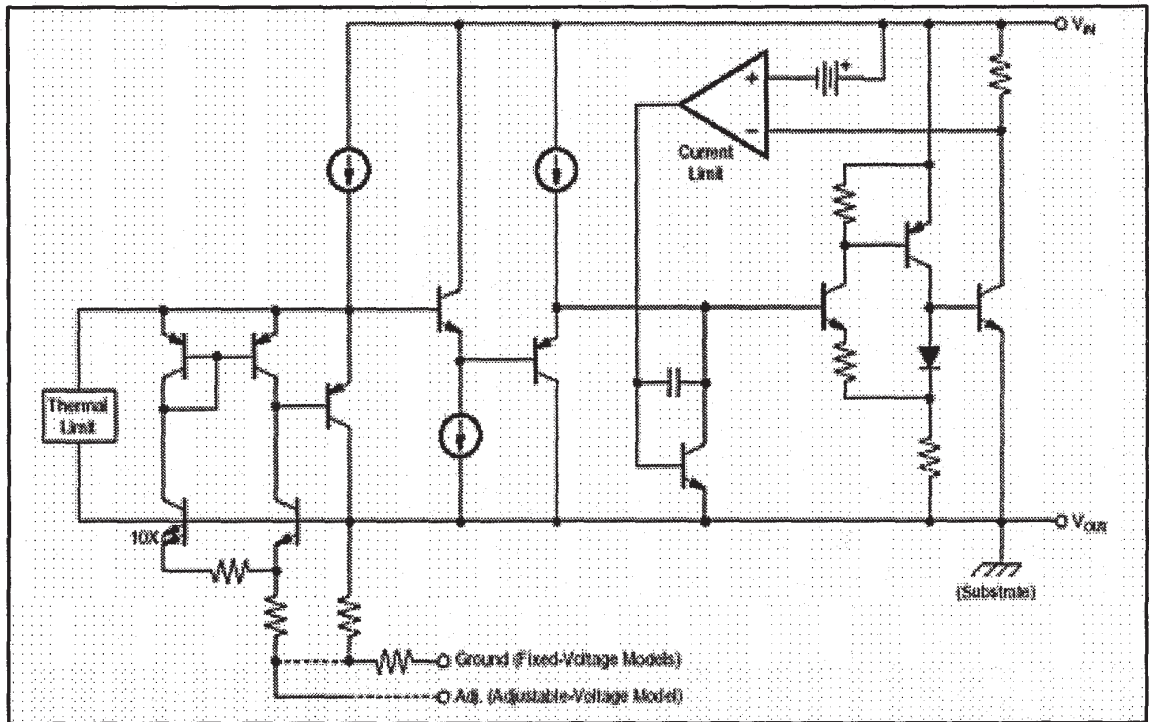
IC BLOCK DIAGRAMS

IC001, Audio AMP

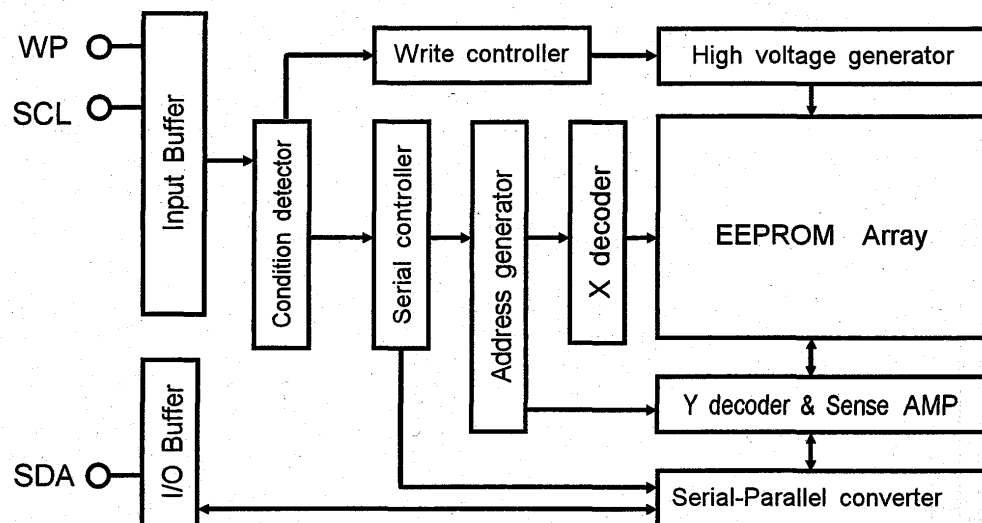


IC BLOCK DIAGRAMS (CONT.)

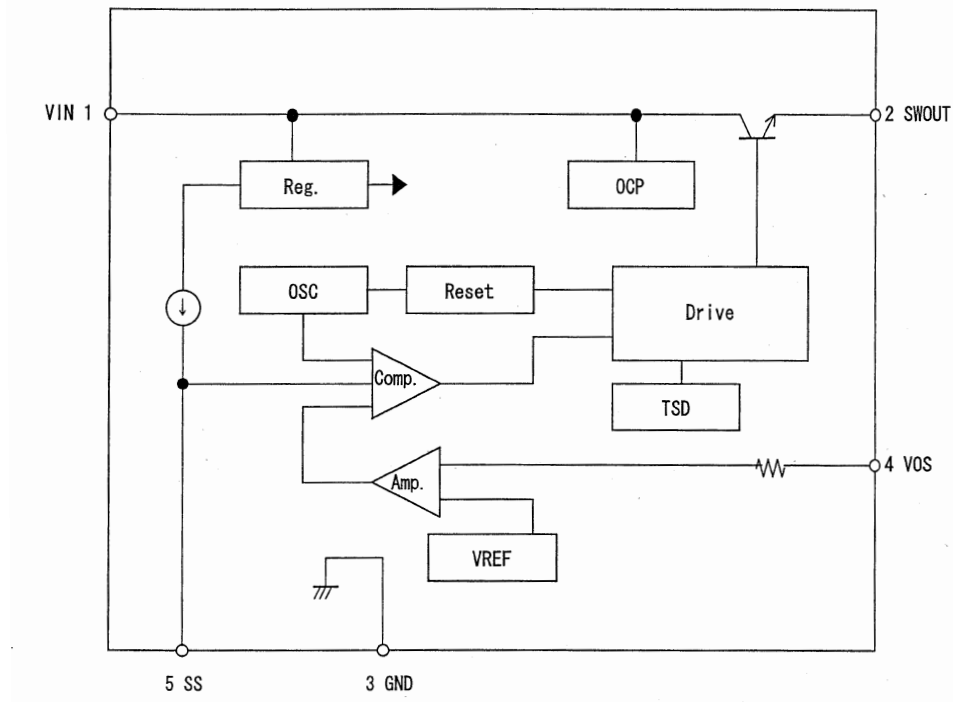
IC1670 Voltage Regulator



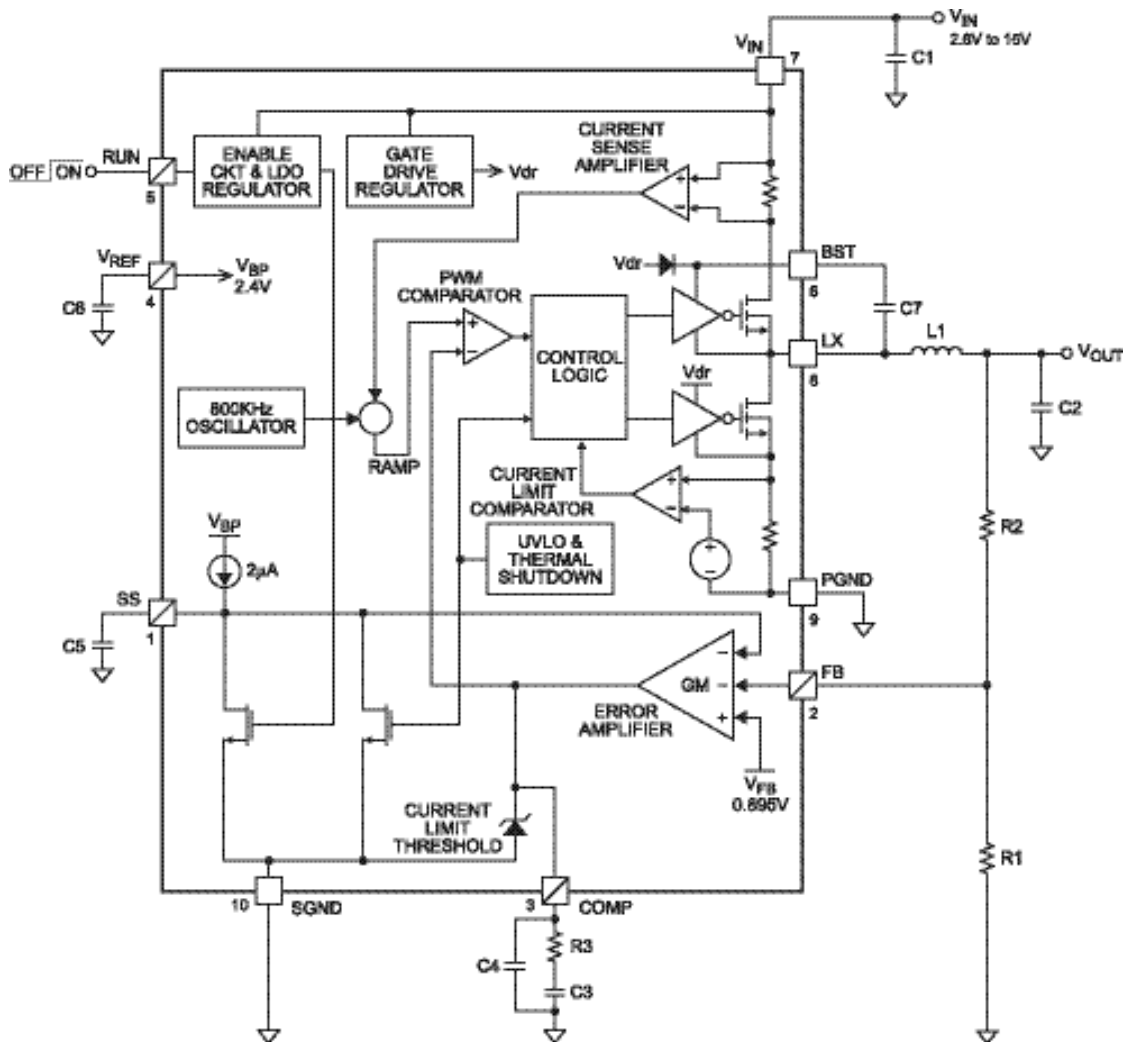
IC803 EEPROM



IC1680 DC to DC Regulator

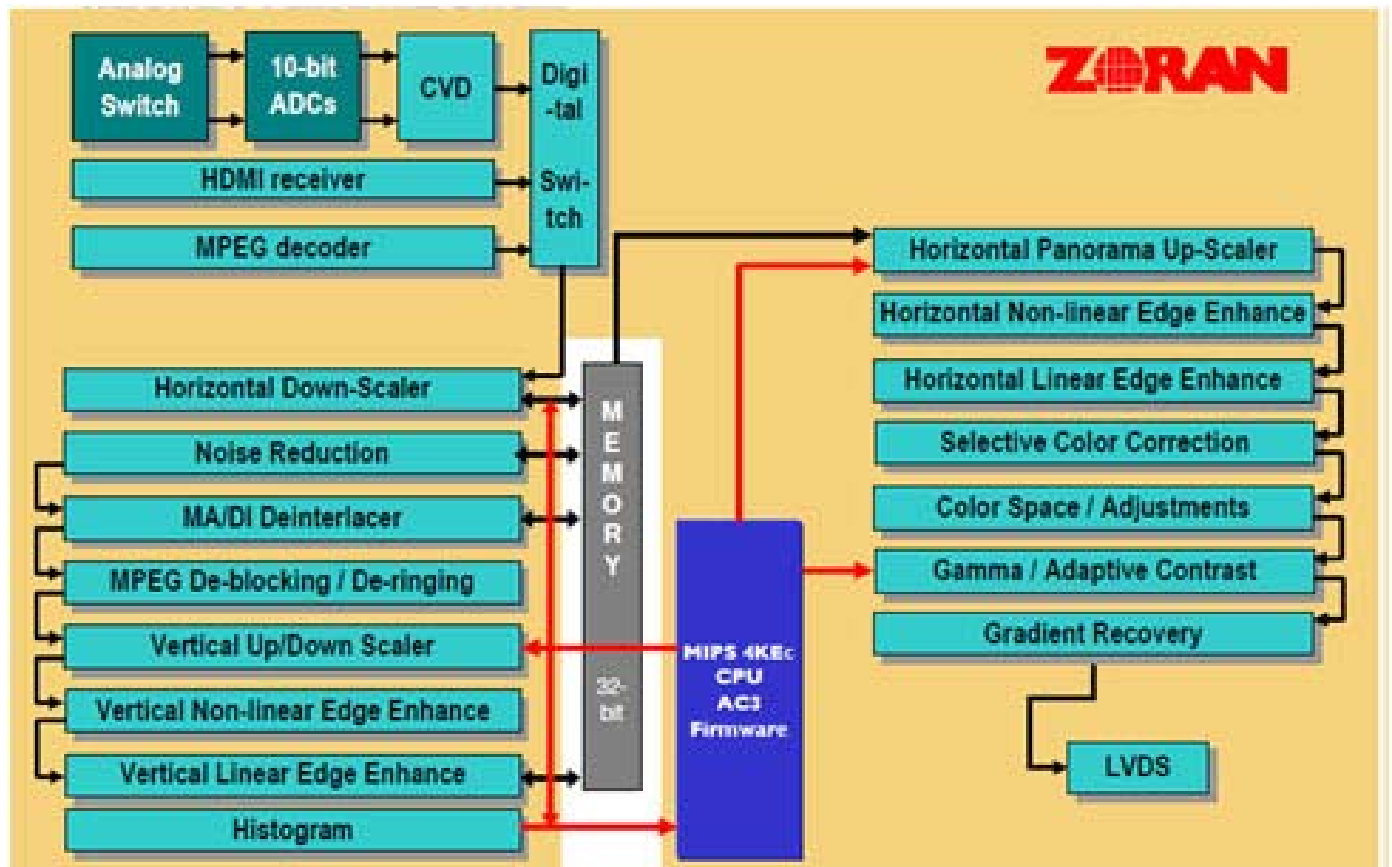


IC1600, DC to DC Converter

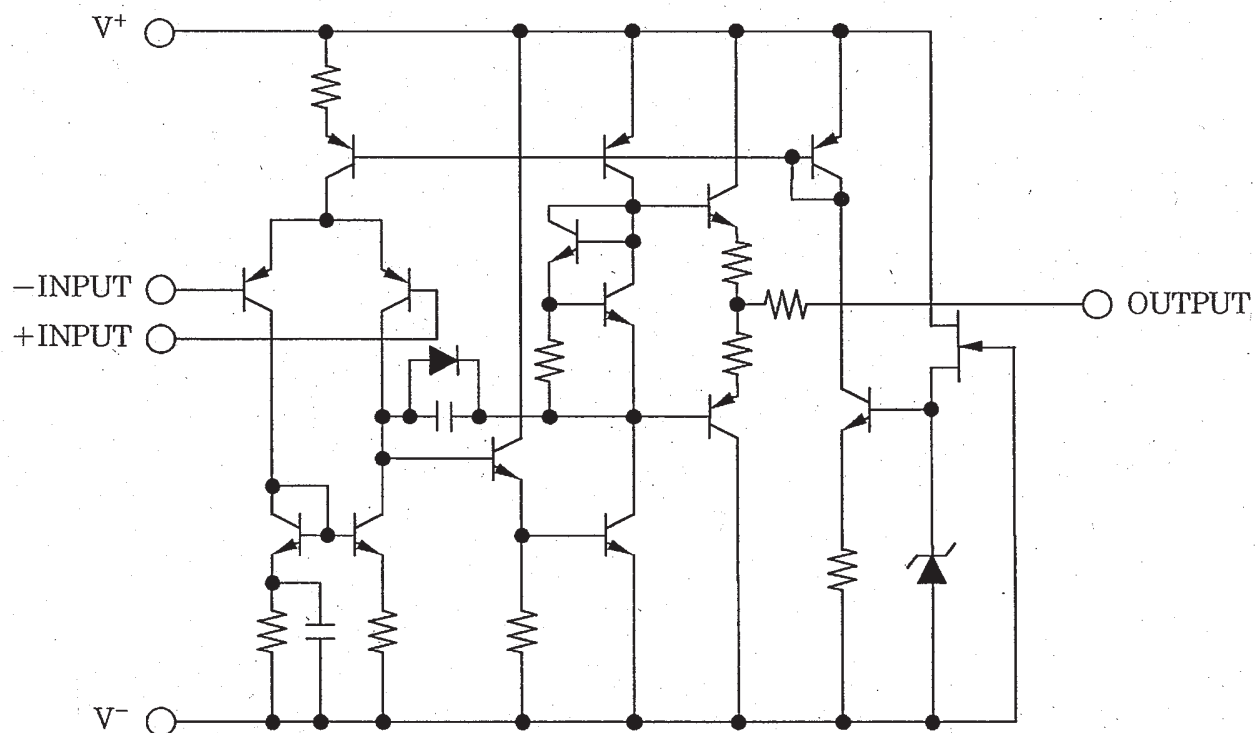


IC BLOCK DIAGRAMS (CONT.)

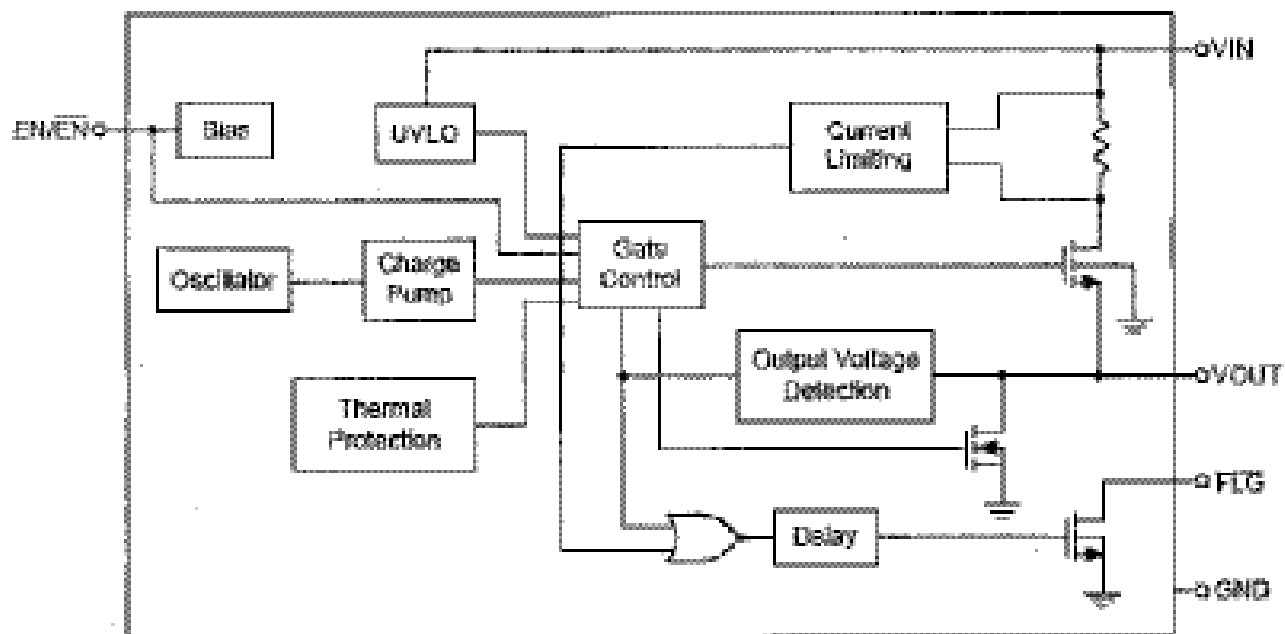
IC5500 Video Processing



IC6270, Low output Amplifier

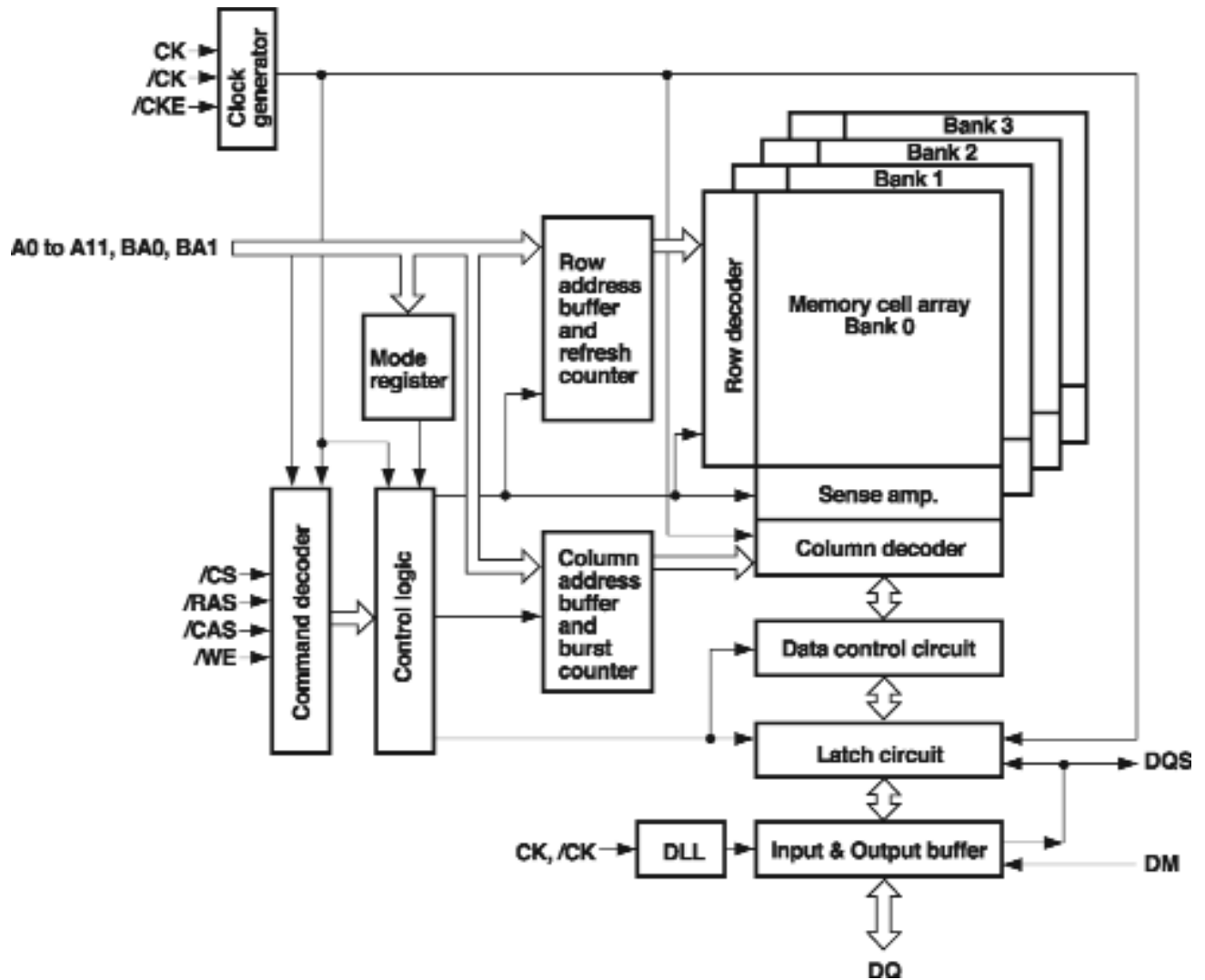


IC6600, USB protection



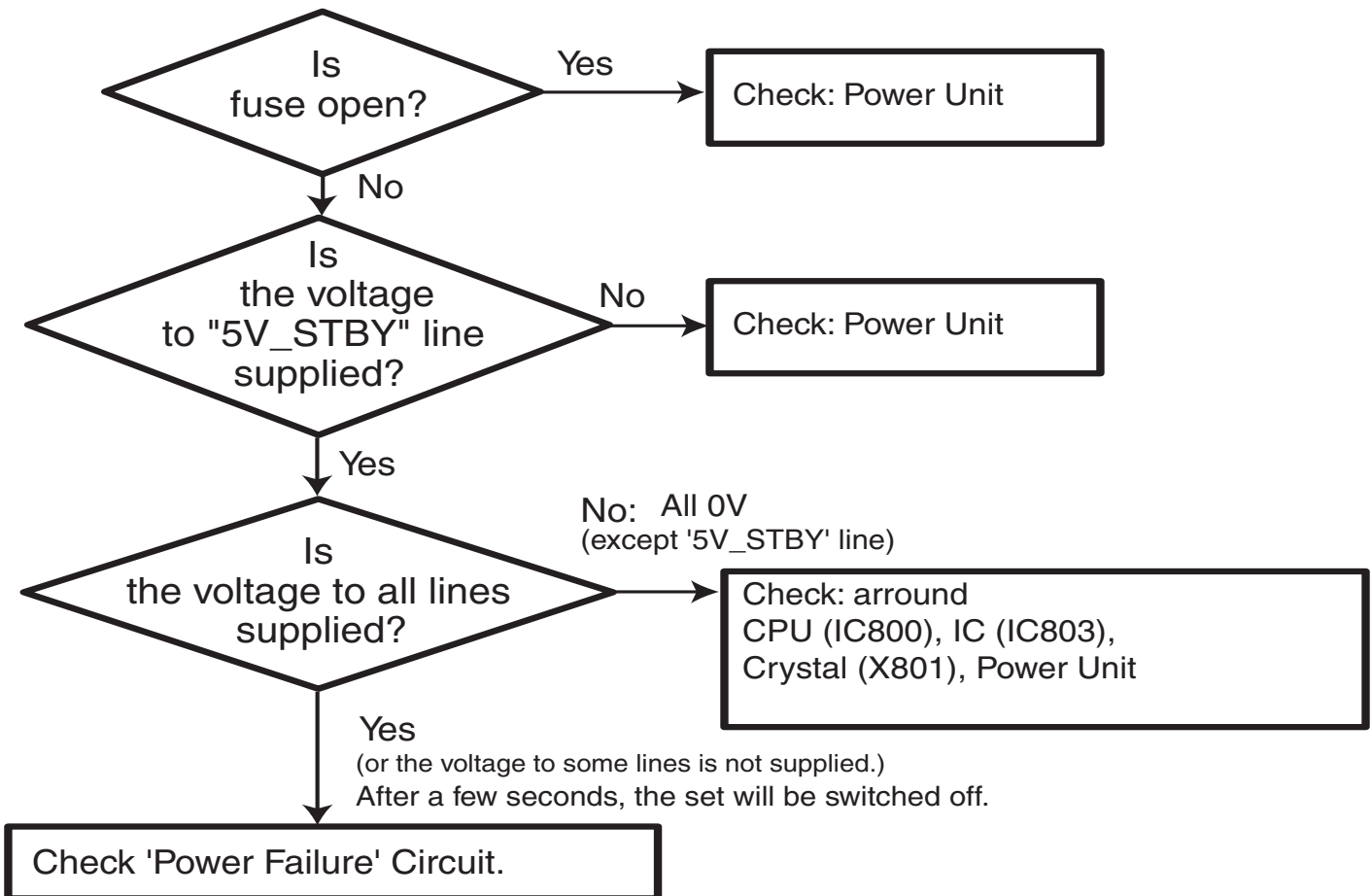
IC BLOCK DIAGRAMS (CONT.)

IC5700, DDR: Double Data Rate SDRAM



TROUBLESHOOTING FLOW CHARTS

NO POWER



Power Failure Line

CPU (IC800) 48pin

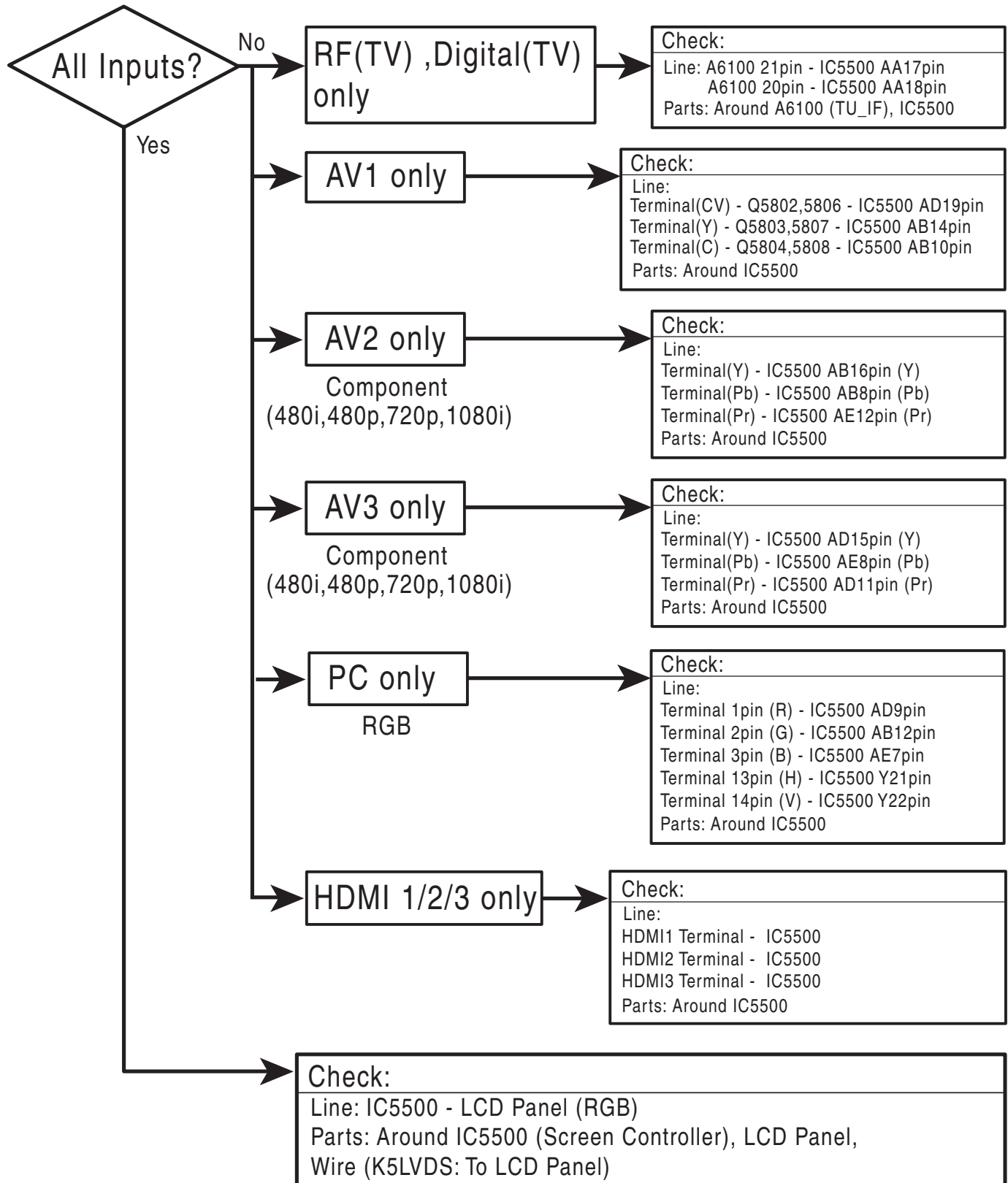
Diod	Detected Voltage
D1670	9V
D1620/D1621	D3.3V
D1641	5V
D1684	AUDIO_POW

CPU (IC800) 23pin

Diod	Detected Voltage
D1682	LVDS_POW

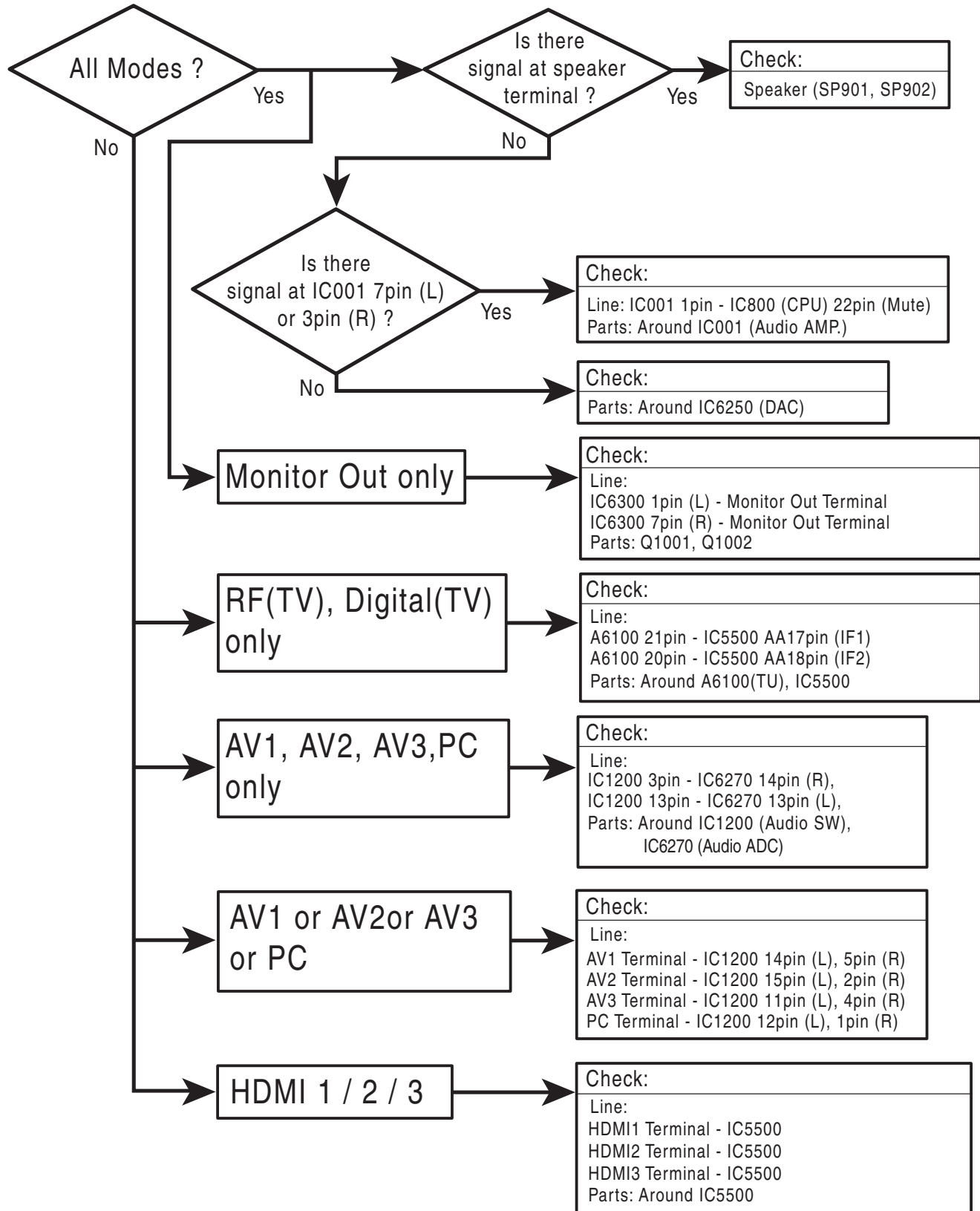
TROUBLESHOOTING FLOW CHARTS (continued)

NO AUDIO



TROUBLESHOOTING FLOW CHARTS (continued)

NO VIDEO



CONTROL PORT FUNCTIONS

System Control (SUB CPU : 801)

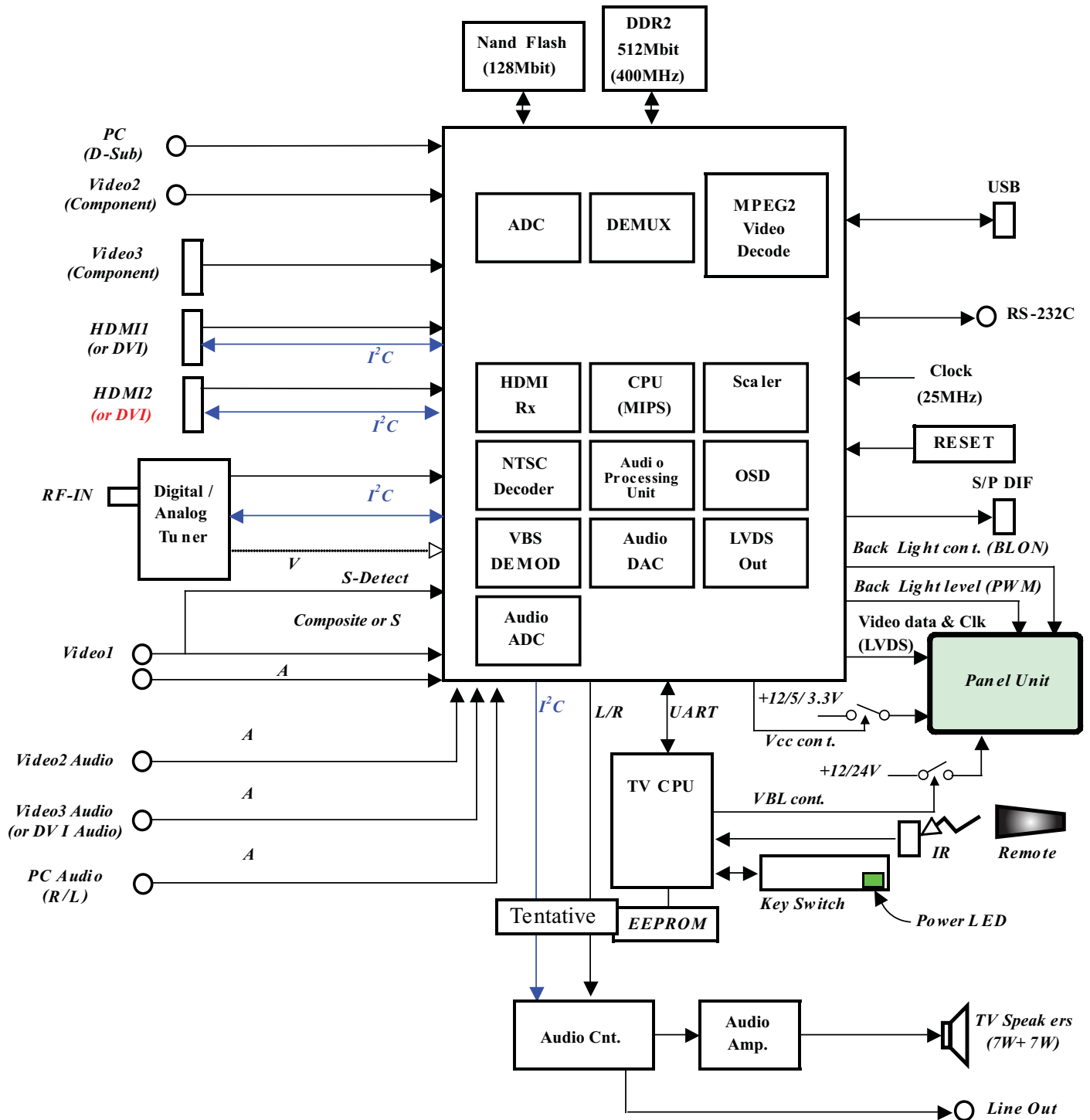
PIN	IC specification	Assignment	I_O	Explanation
1	P12/SCK0	REG SW4	OUT	REG SW4 (ON : High OFF : Low)
2	P13/SO1	REG SW5	OUT	REG SW5 (ON : Low OFF : High)
3	P14/SI1/SB1	IIC-BUS for NV	I/O	Data of IIC Bus Active 'L' for IIC data NV
4	P15/SCK1	IIC-BUS for NV	OUT	Clock of IIC Bus Active 'L' for IIC clock NV
5	P16/T1PWML	REG SW2	OUT	REG SW2 (ON : High OFF : Low)
6	P17/T1PWMH/BUZ	REG SW3	OUT	REG SW3 (ON : Low OFF : High)
7	PWM2	Reserve	OUT	Reserve (Set Low level)
8	PWM3	no use	IN	no use (PWR DET)
9	VDD2	Power IN	IN	VDD2 (5Vdc±10%)
10	VSS2	Vss	IN	GND (0Vdc)
11	P00	Category2	IN	Hard option for category
12	P01	Category1	IN	Hard option for category
13	P02	Category0	IN	Hard option for category
14	P03	Panel Size2	IN	Hard option for panel size
15	P04	Panel Size1	IN	Hard option for panel size
16	P05/CKO	Panel Size0	IN	Hard option for panel size
17	P06/T6O	LED CNTRL	OUT	LED Control output for Power indicator
18	P07/T7O	TV Relay out	OUT	POWER Relay control output ON : High OFF : Low
19	P20/UTX/INT4/T1IN	UART OUT	OUT	Output of UART(Digital Module microcomputer pc. confidence)
20	P21/URX/INT4/T1IN	UART IN	IN	Input of UART (Digital Module microcomputer piece confidence)
21	P22/INT4/T1IN	PC Standby LED	OUT	LED control of PC Standby High Noraml Low
22	P23/INT4/T1IN	Audio MUTE	OUT	Audio Mute MUTE ON : Low OFF : High
23	P24/INT5/T1IN	Power Fail-2 IN	IN	LVDS Power Fail input for LCD model /(no used at PDP model: Setting output mode)
24	P25/INT5/T1IN	AMP STBY	OUT	AMP Standby control Stanby:Low Power on:High
25	P26/INT5/T1IN	HS DET	IN	"Detect H-Sync (Detect : High , PC Input)
26	P27/INT5/T1IN	VS DET	IN	"Detect V-Sync (Detect : High , PC Input)
27	PB7	RESET TV	OUT	for DM Watch Dog Timer
28	PB6	Boot SEL1	OUT	Starting DM S/W download-SEL1(See Table A) (for 42~ model)
29	PB5	Boot SEL2	OUT	Starting DM S/W download-SEL2(See Table A)(for 42~ model)
30	PB4	M OUT MUTE	OUT	MUTE ON Low OFF High
31	PB3	LINE OFF DET	OUT	Detect LINE OFF output(Detect: High -> Low)
32	PB2	Reserve	OUT	Reserve (Set Low level)
33	PB1	Reserve	OUT	Reserve (Set Low level)
34	PB0	Solution	IN	High:42~ model Low:19~32 model
35	VSS3	Vss	IN	GND 0Vdc
36	VDD3	Power IN	IN	VDD3 (5Vdc±10%)
37	PC7	DBGP2	IN	Terminal for De-Bug 3
38	PC6	DBGP1	I/O	Terminal for De-Bug 2
39	PC5	DBGP0	I/O	Terminal for De-Bug 1
40	PC4	CLK	OUT	Writing on bord (CLK)
41	PC3	DATA0	I/O	Writing on bord (DATA0)
42	PC2	ENA/DATA1	I/O	Writing on bord (ENA / DATA1)
43	PC1	Ack out	OUT	Ack output for factory mode
44	PC0	STATUS in	IN	Status input for factory mode
45	AN6	sensor in	IN	sensor input (for PDP model)
46	P85	Reserve	OUT	(OPEN) (Set Low level)
47	P84	Reserve (Panel Alarm)	IN	Reserve (Set Low level)
48	AN3	Power Fail-1 IN	IN	TV Power Error(3.6V less) / Others (3.6V over)
49	P70/INT0/T0LCP	LINE OFF	IN	Detect AC Voltage Reduction (Normal : High)
50	P71/INT1/T0HCP	CEC input	IN	CEC input

PIN	IC specification	Assignment	I O	Explanation
51	P72/INT2/T0IN	CEC output	OUT	CEC output
52	P73/INT3/T0IN	Rcin	IN	Remote control signal input
53	RES	RESET in	IN	CPU Reset input RESET : Low (and for on-board write)
54	XT1	Xin	IN	32.678KHz X'tal input (for clock timer)
55	XT2	Xout	OUT	32.678KHz X'tal output (for clock timer)
56	VSS1	Vss	IN	GND (0Vdc)
57	CF1/AN12	Xti	IN	Main clock input (8MHz ceramic oscillator)
58	CF2/AN13	Xto	OUT	Main clock output (8MHz ceramic oscillator)
59	VDD1	Power IN	IN	VDD1 (5Vdc±10%
60	AN0	Key in	IN	Panel switch input
61	AN1	Reserve	IN	GND
62	P82	PANEL READY	IN	Panel Ready (for PDP) OK : High NG : Low only PDP
63	P10	VS-ON	OUT	VS-ON for PDP) ON : High OFF : Low only PDP model
64	P11	REG SW1	OUT	REG SW1 (ON : Low OFF : High)

<Table A>

28pin(SEL1)	29pin(SEL2)	Operation
High	High	USB download
High	Low	Starting Bank1
Low	High	Starting Bank2
Low	Low	Normal

Zoran 772 Peripherals



SCHEMATIC NOTES

NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an * may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line. Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols.
The schematic symbols and part descriptions are correct and should be used.
The part descriptions will be listed under the location number in the parts list.



ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

SERVICE NOTES:

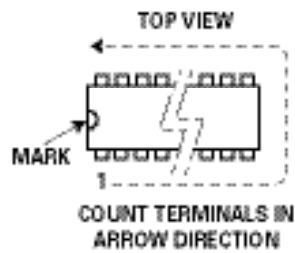
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

PRODUCT SAFETY NOTICE

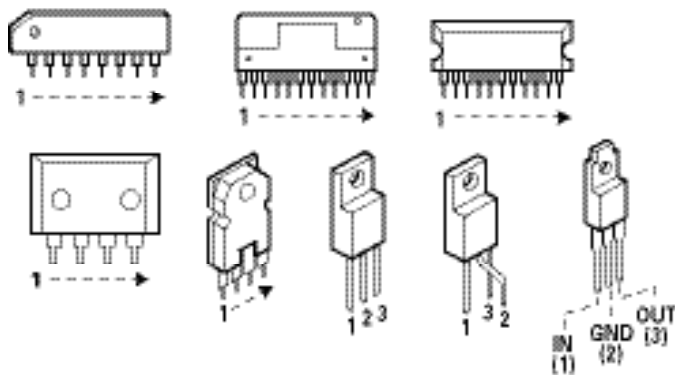
THE COMPONENTS DESIGNATED BY A  ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A  NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

IC, DIODE, AND TRANSISTOR PIN LAYOUTS

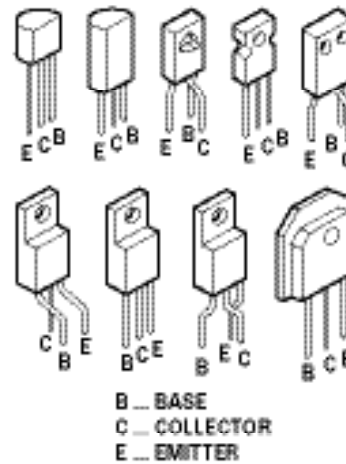
INTEGRATED CIRCUITS



SIDE VIEW

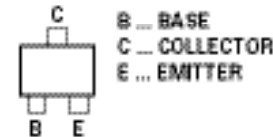


TRANSISTORS

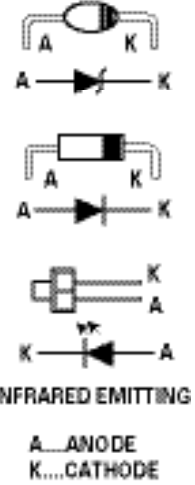


CHIP TRANSISTORS

TOP VIEW

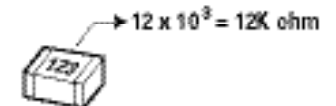


DIODES

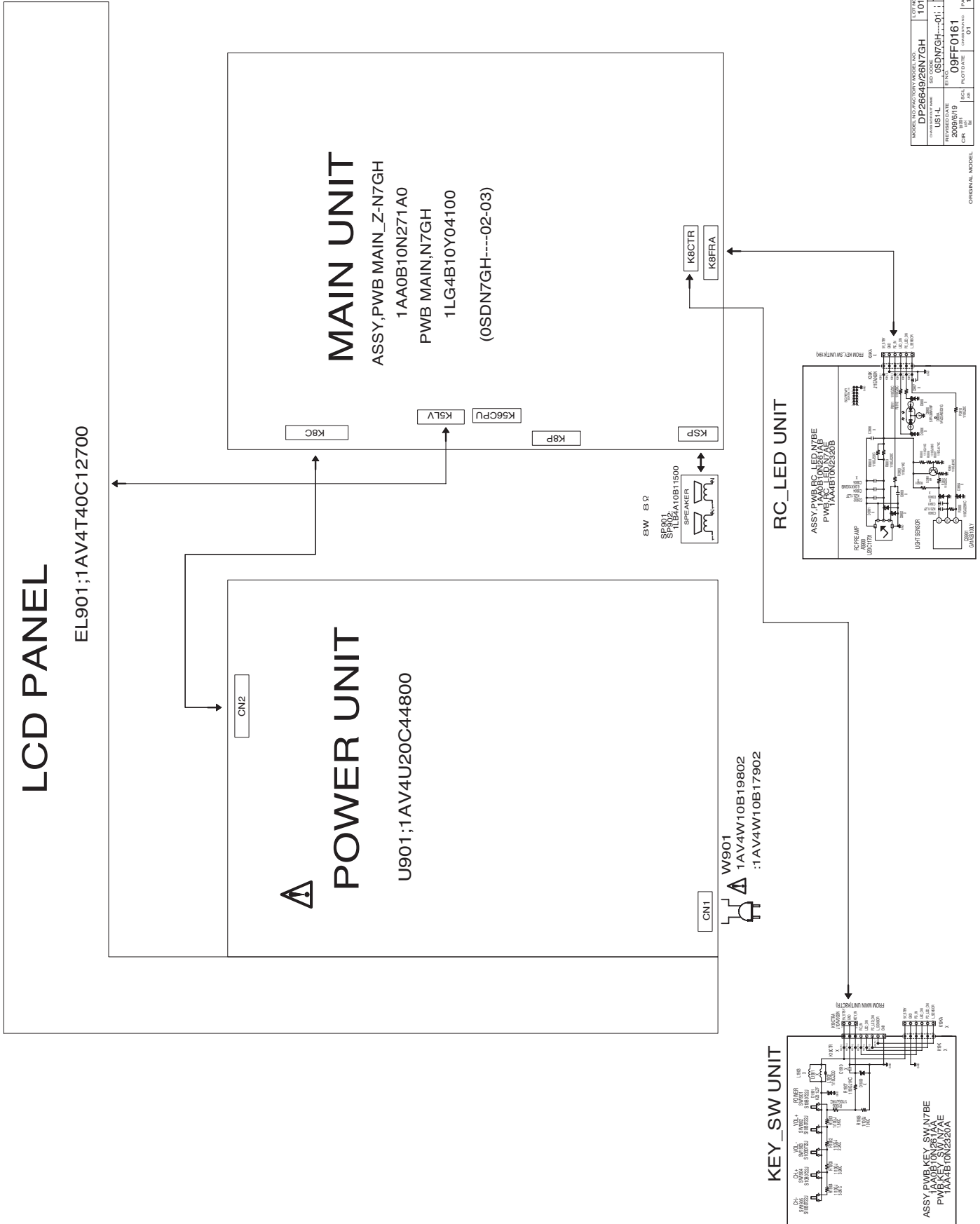


CHIP RESISTORS

TOP VIEW

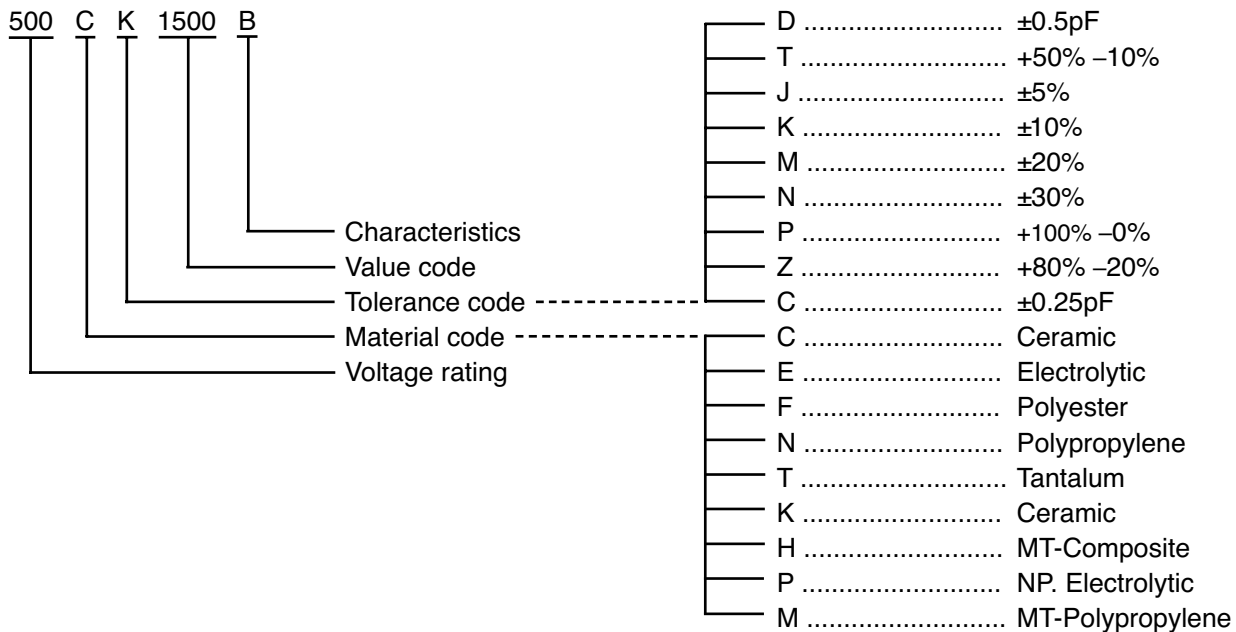


PC BOARD CONNECTIONS AND LOCATIONS

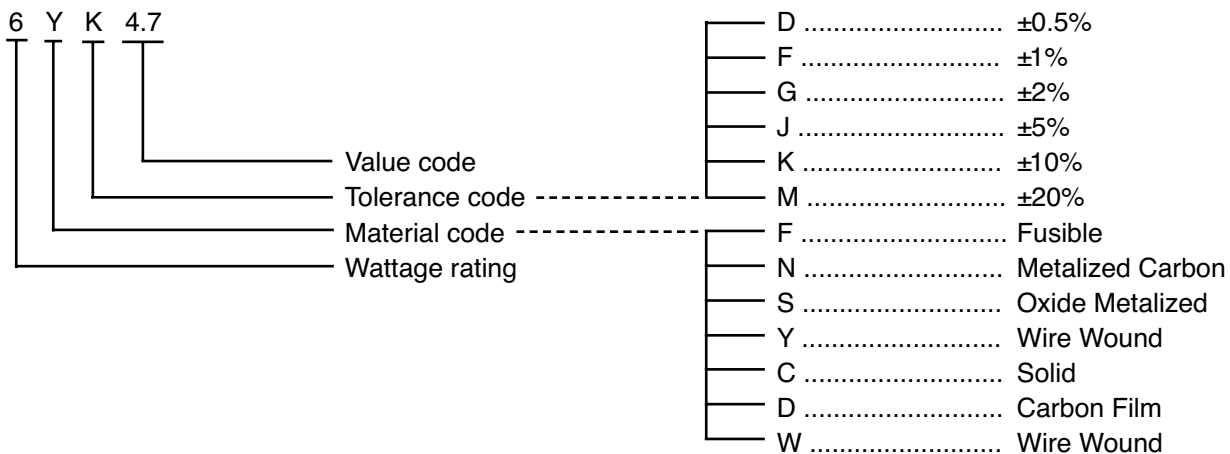


CAPACITOR AND RESISTOR CODE CHART

CAPACITOR (Example)



RESISTOR (Example)

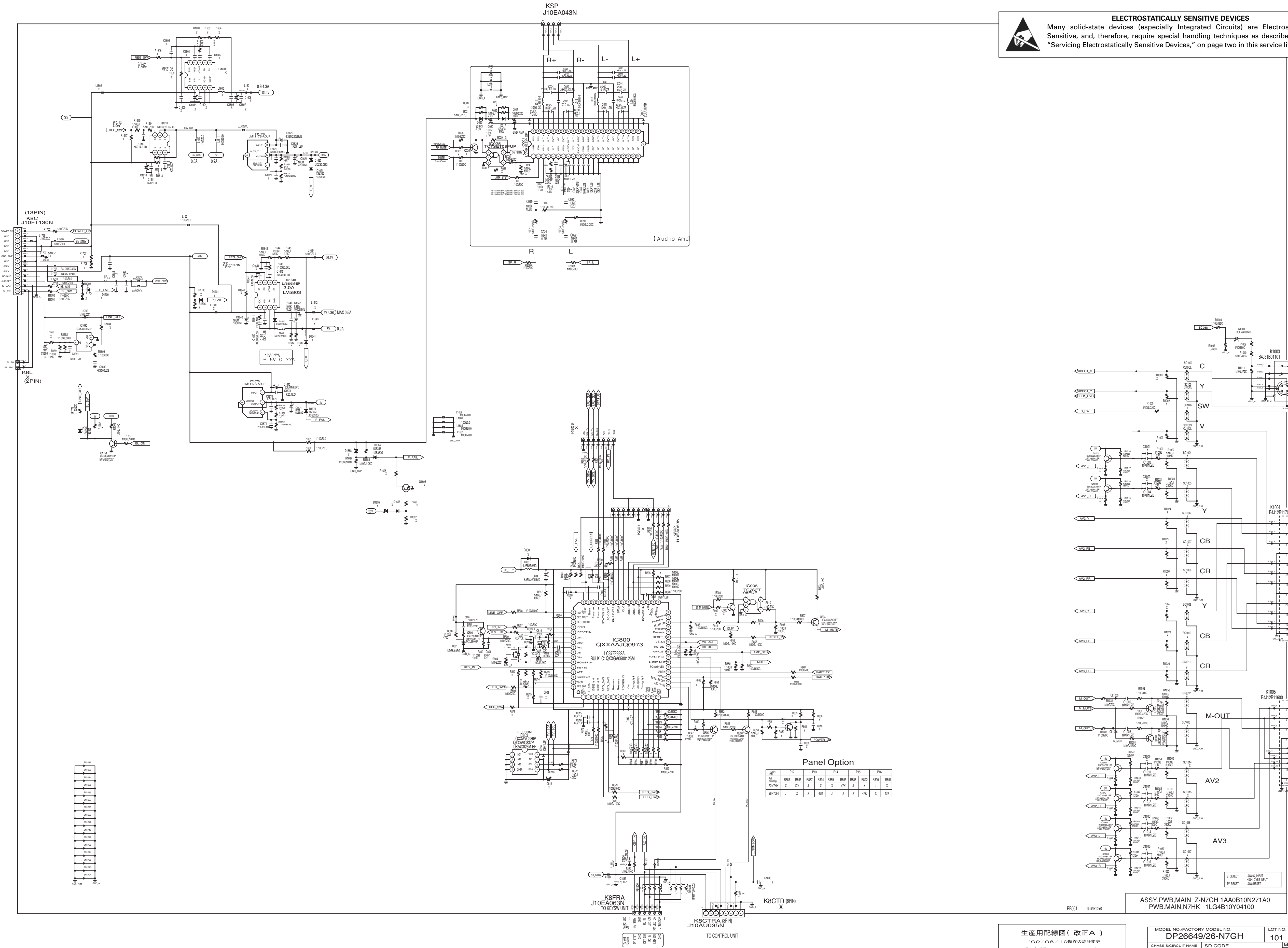


For parts or service contact

Sanyo Manufacturing Corporation
P.O. Box 2000
3333 Sanyo Road
Forrest City, Arkansas 72335-2000



ELECTROSTATICALLY SENSITIVE DEVICES
Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.



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